

Safety Instructions

Notational



These safety instructions must be followed to ensure your safety and prevent property damage.

Make sure to read the instructions carefully and use the product in the correct manner.

Warning / Caution



Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

Notational Conventions



Prohibited



Important to read and understand at all times



Do not disassemble



Disconnect the plug from the



Do not touch



Ground to prevent an electric shock

Power



When not used for extended period of time, set your computer to DPM.

If using screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

Shortcut to Anti-Afterimage Instructions



- Do not use a damaged power cord or plug or a damaged or loose power outlet
- Otherwise, this may result in electric shock or fire.



- Do not touch the power plug with wet hands when removing or plugging the plug into the outlet.
- Otherwise, this may result in electric shock.



- ▶ Make sure to connect the power cord to a grounded power outlet.
- Otherwise, it may result in electric shock or personal injury.



- Ensure that the power plug is plugged into the power outlet firmly and correctly.
- Otherwise, this may result in fire.



- Do not forcefully bend or pull the power plug and do not place any heavy material on it.
- Otherwise, this may result in fire.



- Do not connect multiple appliances to the same power outlet.
- Otherwise, this may cause fire due to overheating.



- Do not disconnect the power cord while using the product.
- Otherwise, this may result in damage to the product due to electric shock.



- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- This may cause electric shock or fire.



- Use only the power cord provided by our company. Do not use the provided power cord of another product.
- Otherwise, this may result in fire or electric shock.

Installation



Be sure to contact an authorized Service Center when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.



- Ensure that at least two persons lift and move the product.
- Otherwise, it may be dropped and cause personal injury, and/or damage the product.



- When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out.
- Otherwise, it may fall or cause personal injury.
- Use a cabinet or rack of a size appropriate to the product.



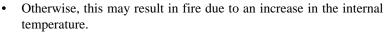
- DO NOT PLACE CANDLES, MOSQUITO REPELLANT, CIGARETTES AND ANY HEATING APPLIANCES NEAR THE PRODUCT.
- Otherwise, this may result in fire.



- Keep heating appliances as far away from the power cord or the product as possible.
- Otherwise, this may result in electric shock or fire.



Do not install it in a badly ventilated location such as a bookcase or closet.





When putting the product down, make sure to put it down softly.

Otherwise, this may result in damage to the screen display.



Do not place the front of the product on the floor.

• Otherwise, this may result in damage to the screen display.



- Ensure that an authorized installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.



- Install your product in a well ventilated location. Ensure that there is a clearance of more than 10 cm from the wall.
- Otherwise, it may result in fire due to an increase in the internal temperature.



- Ensure that the packaging vinyl is kept away from children.
- Otherwise, it may result in serious harm (suffocation) if children play with it.



- If the height of your monitor is adjustable, do not place any object or part of your body on the stand when lowering it.
- This may cause damage to the product or the person carrying it.

Clean



When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.



- Do not spray cleaner directly onto the surface of the product.
- Otherwise, this may result in the discoloration and distortion of the structure and the screen surface may peel off.



Clean the product using a soft cloth with a monitor cleaner only. If you must use a cleaner other than the monitor cleaner, dilute it with water at a ratio of 1:10.



- When cleaning the power plug pins or dusting the power outlet, clean it with a dry cloth.
- Otherwise, it may result in fire.



- When cleaning the product, make sure to disconnect the power cord.
- Otherwise, it may result in electric shock or fire.



- When cleaning the product, disconnect the power cord and clean it softly with a dry cloth.
- (Do not use chemicals such as wax, benzene, alcohol, thinner, mosquito repellant, lubricant, or cleaner.) These may change the appearance of the product surface and peel off the indication labels on the product.



- Since the product housing is easily scratched, make sure to use the specified cloth only.
- Use the specified cloth adding only a little water. As the product may be scratched if there is any foreign material on the cloth, make sure to shake it thoroughly before using it.



- When cleaning the product, do not spray water directly onto the main body of the product.
- Ensure that water does not enter the product and that it is not wet.
- Otherwise, this may result in electric shock, fire or a malfunction.

Others



- The product is a high voltage product. Ensure that users do not disassemble, repair or modify the product themselves.
- Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a Service Center.



- If there is a strange smell or a strange sound or smoke is coming from the product, disconnect the power plug immediately and contact a Service Center.
- Otherwise, this may result in electric shock or fire.



- Do not place this product in a location exposed to moisture, dust, smoke, water, or in a car.
- Otherwise, this may result in electric shock or fire.



- When you drop the product or the case is broken, turn the power off and disconnect the power cord. Contact a Service Center.
- Otherwise, this may result in electric shock or fire.

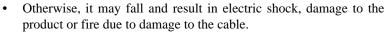


- If thunder or lightening is occurring, do not touch the power cord or antenna cable.
- Otherwise, this may result in electric shock or fire.





Do not try to move the monitor by pulling only the wire or the signal cable.





Do not lift or move the product back and forwards or right and left while only holding the power cord or signal cables.

Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.



Make sure that the ventilating opening is not blocked by a table or curtain.

Otherwise, it may result in fire due to an increase in the internal temperature.



Do not place any containers containing water, vases, flowerpots, medicines as well as any metal on the product.

- If water or a foreign material enters the product, disconnect the power cord and contact a Service Center.
- This may result in a product malfunction, electric shock, or fire.



Do not use or keep combustible spray or flammable material near the product.

Otherwise, this may result in an explosion or fire.



- Do not insert any metal, such as chopsticks, coins, pins and steels, or inflammable objects, such as matches or paper, inside the product (through the ventilating openings, input and output terminals, etc).
- If water or foreign material enters the product, disconnect the power cord and contact a Service Center.
- Otherwise, this may result in electric shock or fire.



- When using a fixed screen for a long time, an afterimage or stain may occur.
- If you are not using your product for a long period of time, put it into sleep mode or use a moving screen saver.



- Set a resolution and frequency appropriate to the product.
- Otherwise, your eyesight may be damaged.



- When using headphones or earphones, do not turn the volume too high.
- Having the sound too loud may damage your hearing.



If you continually move closer to the product screen, your eyesight may be failing.





Take a rest for at least five (5) minutes after using the monitor for one (1) hour.

This reduces the weariness of your eyes.



Do not install it in an unstable location such as an unstable rack or uneven surface or a location exposed to vibrations.

- Otherwise, it may fall and cause personal injury and/or damage the product.
- If you use the product in a location exposed to vibrations, it may damage the product and result in fire.



When moving the product, turn the power off and disconnect the power plug, antenna cable, and all the cables connected to the product.

Otherwise, it may result in electric shock or fire.



- Ensure that children do not hang onto the product or climb up onto the product.
- The product may fall and cause personal injury or death.



- If you do not use the product for a long period of time, disconnect the power cord from the power outlet.
- Otherwise, this may result in overheating or fire due to dust, and may result in fire due to electric shock or leakage.



- Do not place any heavy items or toys or confectionery, such as cookies etc. that may attract the attentions of children and to the product.
- Your children may hang onto the product causing it to fall and this may result in personal injury or death.



- Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.
- If children have had the battery in their mouths, consult your doctor immediately.



- When replacing the battery, insert it with right polarity (+, -).
- Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.



- Use only the specified standardized batteries, and do not use a new battery and a used battery at the same time.
- Otherwise, the batteries may be damaged or cause fire, personal injury or damage due to a leakage of the internal liquid.



- The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling.
- The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the battery or rechargeable battery.





- Do not place the product in a location exposed to direct sunlight or near any heat such as a fire or heater.
- This may reduce the lifetime of the product, and may result in fire.



- Do not drop any objects onto the product or cause any impact to the product.
- Otherwise, this may result in electric shock or fire.



- Do not use a humidifier or kitchen table near the product.
- Otherwise, this may result in electric shock or fire.



- When there is a gas leak, do not touch the product or the power plug but ventilate immediately.
- If a spark occurs, it may cause an explosion or fire.



- If the product has been turned on for a long time, the display panel becomes hot. Do not touch it.
- Keep the small accessories in a location out of the reach of children.



- Be careful when adjusting the angle of the product or the height of the stand.
- This may result in personal injury as your hand or fingers may become caught.
- Also, if you tilt the product too far, it may fall and cause personal injury.



- Do not install the product in a location low enough for children to
- Otherwise, it may fall and result in personal injury.
- Since the front part of the product is heavy, install the product on a level and stable surface.



- Do not put any heavy objects on the product.
- This may result in personal injury and/or damage to the product.

Introduction

Package Contents



Please make sure the following items are included with your LCD Display.

If any items are missing, contact your dealer.

Contact a local dealer to buy optional items.



This stand is not for the Floor Standing Type.

Unpacking



LCD Display

Manuals







Quick Setup Guide

Warranty Card

User's Guide

(Not available in all locations)

Cables





D-Sub Cable

Power Cord

Others





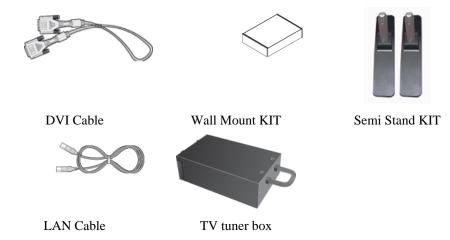


Others

Remote Control Batteries (AAA X 2) HDD Cover

(Not available in all locations)

Sold separately

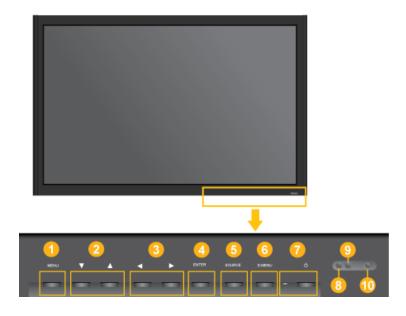




- You can purchase and connect a separate network box or TV tuner box. For information on how
 to use these, refer to their respective user manuals.
- You can only connect one external box.

Your LCD Display

Front



1 MENU button [MENU]

Opens the on-screen menu and exits from the menu. Also use to exit the OSD menu or return to the previous menu.

Navigate buttons (Up-Down buttons)

Moves from one menu item to another vertically or adjusts selected menu values.

3 Adjust buttons (Left-Right buttons) / Volume buttons

Moves from one menu item to another horizontally or adjusts selected menu values. When OSD is not on the screen, push the button to adjust volume.

ENTER button [ENTER]

Activates a highlighted menu item.

SOURCE button [SOURCE]

Switches from PC mode to Video mode. Changing the source is only allowed for external devices that are connected to the LCD Display at the time.

[PC] [DVI] [AV] [HDMI] [MagicInfo]

- The **TV** menu is available when a TV tuner box is installed.
- 6 D.MENU

Opens the on-screen D.MENU.



- This is available when a TV tuner box is installed.
- Power button [$^{\circlearrowright}$]

Use this button for turning the LCD Display on and off.

Brightness Sensor

The product's Brightness Sensor function automatically detects the surrounding brightness using a brightness sensor and adjusts its brightness accordingly.

9 Power indicator

Shows PowerSaver mode by blinking green



See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your LCD Display OFF when it is not needed or when leaving it unattended for long periods.

Remote Control Sensor

Aim the remote control towards this spot on the LCD Display.

Rear



For detailed information concerning cable connections, refer to Connecting Cables under Setup. The LCD Display 's configuration at the back may vary slightly depending on the LCD Display model.







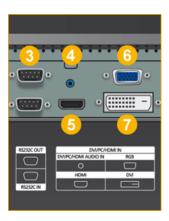
1 POWER S/W ON [] / OFF [O]

Switches the LCD Display On/Off.

2 POWER IN

The power cord plugs into the LCD Display and the wall plug.





3 RS232C OUT/IN (RS232C Serial PORT)

MDC(Multiple Display Control) Program Port

4 DVI/PC/HDMI IN [DVI/PC/HDMI AUDIO IN] (PC/DVI/HDMI Audio Connection Terminal (Input))

5 DVI / PC / HDMI IN [HDMI]

Connect the HDMI terminal at the back of your LCD Display to the HDMI terminal of your digital output device using a HDMI cable.

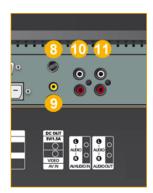
6 DVI / PC / HDMI IN [RGB](PC Video Connection Terminal)

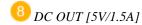
Using a D-Sub Cable (15 pin D-Sub) - PC mode (Analog PC)

OVI / PC / HDMI IN [DVI] (PC Video Connection Terminal)

Using a DVI Cable (DVI-D to DVI-D) - DVI mode (Digital PC)







Connect this to the **POWER** connector of a TV tuner box or network box.

9 AV IN [VIDEO] (VIDEO Connection Terminal)

Connect the [VIDEO] terminal of your monitor to the video output terminal of the external device using a VIDEO cable.

AV AUDIO IN [L-AUDIO-R](LCD Display Audio Connection Terminal (Input))

11 AV AUDIO OUT [L-AUDIO-R] (LCD Display Audio Connection Terminal (Output))





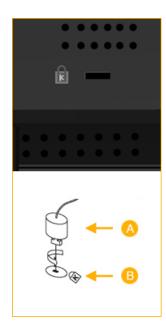
- 12 RGB OUT
- 13 LAN (LAN Connection Terminal)
- USB(USB Connection Terminal)

Keyboard / Mouse, Mass Storage Device Compatible.



The number of LCD Displays that can be connected to loopout may differ depending on the cables, signal source etc. With cables where there is no degradation or signal source, up to ten LCD Displays can be connected.





Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for proper use. The locking device has to be purchased separately.



The location of the Kensington Lock may be different depending on its model.

Using the Anti-Theft Kensington Lock

- 1. Insert the locking device into the Kensington slot on the Monitor and turn it in the locking direction .
- 2. Connect the Kensington Lock cable.
- 3. Fix the Kensington Lock to a desk or a heavy stationary object.



See Connecting Cables for further information regarding cable connections.

Remote Control



The performance of the remote control may be affected by a TV or other electronic device operating near the LCD Display, causing a malfunction due to interference with the frequency.



The **TV** menu is available when a TV tuner box is installed.



- O U POWER
- OFF
- 3 Number Buttons
- DEL button
- 5 + VOL -
- 6 🕸 MUTE
- TV/DTV
- 8 MENU
- 9 🗗
- 0 i info
- **11** COLOR BUTTONS
- 12 TTX/MIX
- 13 STILL
- 4 AUTO
- 6 S.MODE
- 16 MDC
- 1 LOCK
- ⊕ SOURCE
- 19 ENTER/PRE-CH
- 2 D.MENU
- QUIDE
- 23 D RETURN
- Up-Down Left-Right buttons
- 25 → 🗐 EXIT
- ²⁰ (●)_{SRS}
- 27 MagicInfo
- 28 P.MODE
- 29 H DUAL/MTS
- 30 PIP
- 3 SWAP

1. U POWER

Turns the product On.

2. Off

Turns the product Off.

3. Number Buttons

Press to change the channel.

4. DEL - button	The "-" button operates only for DTV. It is used to select MMS (multi-channel) for a DTV.		
5. + VOL -	Adjusts the audio volume.		
6. [™] MUTE	Pauses (mutes) the audio output temporarily. This is displayed on the lower left corner of the screen. The audio resumes if MUTE or - VOL + is pressed in the Mute mode.		
7. TV/DTV	Selects the TV and DTV mode directly.		
8. MENU	Opens the on-screen menu and exits from the menu or closes the adjustment menu.		
9.	Activates a highlighted menu item.		
10. <i>i</i> INFO	Current picture information is displayed on the upper left corner of the screen.		
11.COLOR BUTTONS	Press to add or delete channels and to store channels to the favorite channel list in the "Channel List" menu.		
12. TTX/MIX	TV channels provide written information services via teletext.		
	- Teletext Buttons		
	8 ≡ , 10 ≘ , 13 ⋈ , 18 ≡ , 19 ⋈ , 20 ⋈ , 21 剩 , 23 ≡ , 25 ⋈ ,		
	For more information > TTX / MIX		
13.STILL	For more information > TTX / MIX Press the button once to freeze the screen. Press it again to unfreeze.		
13.STILL 14.AUTO	Press the button once to freeze the screen. Press it again to un-		
	Press the button once to freeze the screen. Press it again to unfreeze. Adjusts the screen display automatically in PC mode. By changing		
14.AUTO	Press the button once to freeze the screen. Press it again to unfreeze. Adjusts the screen display automatically in PC mode. By changing the resolution in the control panel, auto function is performed. When pressing this button, the current mode is displayed at the bottom centre of the screen. The LCD Display has a built-in high fidelity stereo amplifier. Then press the button again to circle through available preconfigured modes. (Standard Music		
14.AUTO 15. S.MODE	Press the button once to freeze the screen. Press it again to unfreeze. Adjusts the screen display automatically in PC mode. By changing the resolution in the control panel, auto function is performed. When pressing this button, the current mode is displayed at the bottom centre of the screen. The LCD Display has a built-in high fidelity stereo amplifier. Then press the button again to circle through available preconfigured modes. (Standard Music Movie Speech Custom)		
14.AUTO 15. S.MODE 16.MDC	Press the button once to freeze the screen. Press it again to unfreeze. Adjusts the screen display automatically in PC mode. By changing the resolution in the control panel, auto function is performed. When pressing this button, the current mode is displayed at the bottom centre of the screen. The LCD Display has a built-in high fidelity stereo amplifier. Then press the button again to circle through available preconfigured modes. (Standard Music Movie Speech Custom) MDC Quick Launch Button. Activates or deactivates all function keys on both the remote con-		

This button is used to return to the immediately previous channel.

In TV mode, selects TV channels.

Returns to the previous menu.

Electronic Program Guide (EPG) display.

DTV menu display

19. ENTER/PRE-CH

20.**∨**CH/P∧

21.D.MENU

22.GUIDE

23. D RETURN

24. Up-Down Left-Right but-

tons

Moves from one menu item to another horizontally, vertically or

adjusts selected menu values.

25.**→** ■ EXIT

Exits from the menu screen.

26.(**1**) SRS

Selects SRS TruSurround XT mode.

27.MagicInfo

MagicInfo Quick Launch Button.

28. P.MODE

When you press this button, current picture mode is displayed on the lower center of the screen.

AV/HDMI/TV: P.MODE

The LCD Display has four automatic picture settings that are preset at the factory. Then push button again to circle through available preconfigured modes. (**Dynamic Standard Movie**

Custom)

PC / DVI / MagicInfo: M/B (MagicBright)

MagicBright is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Then push button again to circle through available preconfigured

modes. (Entertain Internet Text Custom)

29. H DUAL/MTS

DUAL-

STEREO/MONO, DUAL 1 / DUAL 11 and MONO/NICAM MONO/NICAM STEREO can be operated depending on the broadcasting type by using the DUAL button on the remote control while watching TV.

MTS-

You can select MTS (Multichannel Television Stereo) mode.

	Audio Type	MTS/S_Mode	Default
FM Stereo	Mono	Mono	Manual Change
	Stereo	$Mono \leftrightarrow Stereo$	
	SAP	$Mono \leftrightarrow SAP$	Mono

30. PIP

Every time you press the button, a PIP screen appears.

- This fuction does not work for this LCD Display.

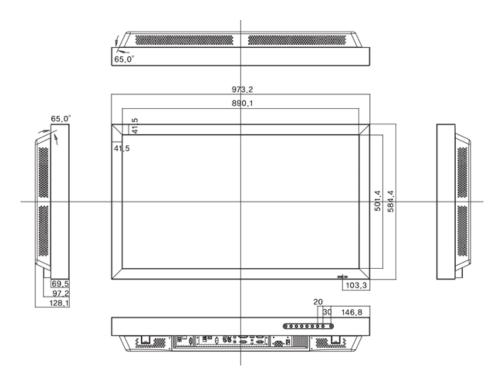
31.SWAP

Swaps the contents of the PIP and main image. The image in the PIP window will appear on the main screen, and the main screen image will appear in the PIP window.

- This fuction does not work for this LCD Display.

Mechanical Layout (400TSn)

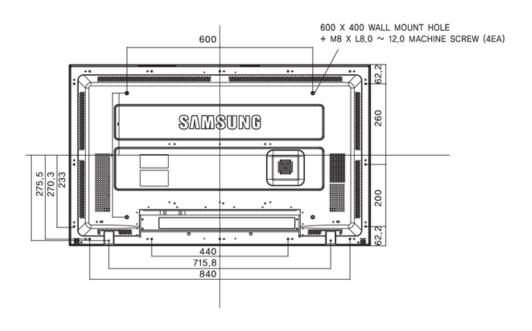
Mechanical Layout



Installation VESA Bracket

- When installing VESA, make sure to comply with the international VESA standards.
- Purchasing VESA Bracket and Installation Information: Please contact your nearest SAMSUNG
 Distributor to place an order. After your order is placed, installation professionals will visit you
 and install the bracket.
- At least 2 persons are needed in order to move the LCD Display.
- SAMSUNG is not responsible for any product damage or any injury caused by installation at customer's discretion.

Dimensions





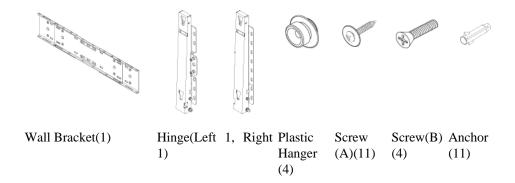
For securing the bracket on a wall, use only machine screws of 6 mm diameter and 8 to 12 mm length.

Wall Bracket Installation

- Contact a technician for installing the wall bracket.
- SAMSUNG Electronics is not responsible for any damages to the product or harm to customers when the installation is done by the customer.
- This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.

Components

Only use the components and accessories shipped with the product.



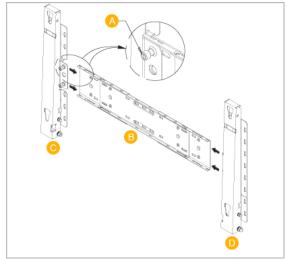
Wall Bracket Assembly



There are two hinges(left and right). Use the correct one.

1. Insert and tighten the Captive Screw in the direction of the arrow.

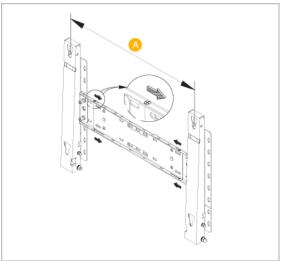
When done, mount the wall bracket on the wall.



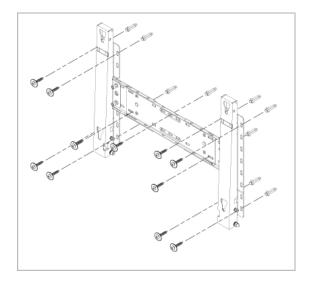
There are two hinges(left and right). Use the correct one.

- A Captive Screw
- B Wall Bracket
- C Hinge (Left)
- D Hinge (Right)
- 2. Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct.

If the length is too short or long, loosen all or some of the 4screws on the wall bracket to adjust the length.



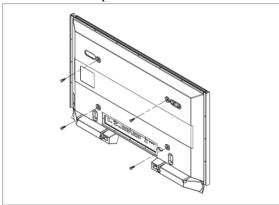
- A Length between the two locking holes
- 3. Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws A.



To mount the product on the wall bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)

1. Remove the 4 screws on the back of the product.

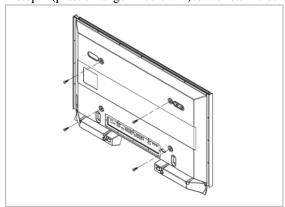


2. Insert the screw B into the plastic hanger.

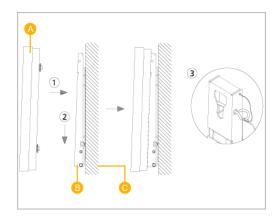




- Mount the product on the wall bracket and make sure it is properly fixed to the left and right plastic hangers.
- Be careful when installing the product on the bracket as fingers can be caught in the holes.
- Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.
- 3. Tighten the 4 screws in step 2 (plastic hanger + screw B)to the rear holes of the product.



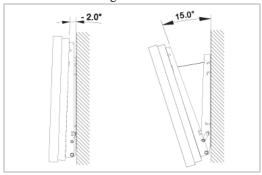
4. Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product(2) so that it is firmly fixed to the bracket. Make sure to re-insert and tighten the safety pin (3) to securely hold the product to the bracket.



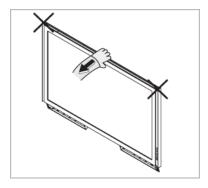
A - LCD DisplayB - Wall BracketC - Wall

Wall Bracket Angle Adjustment

Adjust the bracket angle to -2° before installing it on the wall.



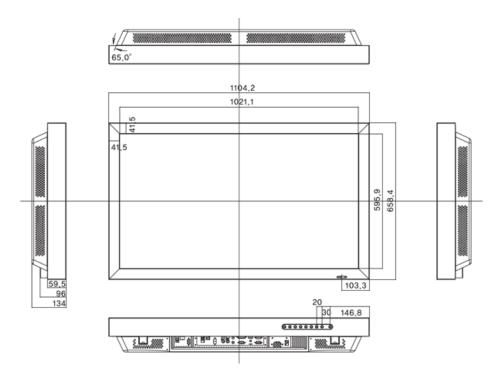
- 1. Fix the product to the wall bracket.
- 2. Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle.
- 3. You can adjust the bracket angle between -2° and 15° .



Make sure to use the top center, and not the left or the right side of the product to adjust the angle.

Mechanical Layout (460TSn)

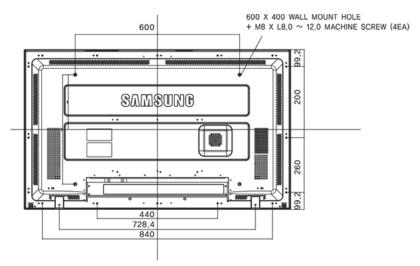
Mechanical Layout



Installation VESA Bracket

- When installing VESA, make sure to comply with the international VESA standards.
- Purchasing VESA Bracket and Installation Information: Please contact your nearest SAMSUNG
 Distributor to place an order. After your order is placed, installation professionals will visit you
 and install the bracket.
- At least 2 persons are needed in order to move the LCD Display.
- SAMSUNG is not responsible for any product damage or any injury caused by installation at customer's discretion.

Dimensions



Notice

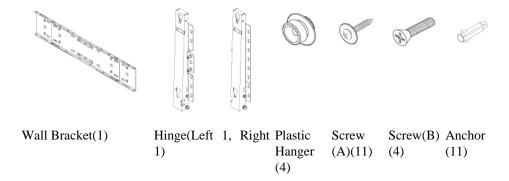
For securing the bracket on a wall, use only machine screws of 6 mm diameter and 8 to 12 mm length.

Wall Bracket Installation

- Contact a technician for installing the wall bracket.
- SAMSUNG Electronics is not responsible for any damages to the product or harm to customers when the installation is done by the customer.
- This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.

Components

Only use the components and accessories shipped with the product.



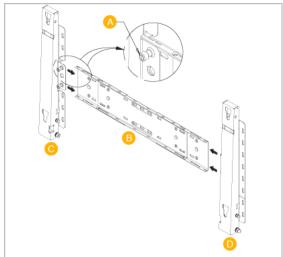
Wall Bracket Assembly



There are two hinges(left and right). Use the correct one.

1. Insert and tighten the Captive Screw in the direction of the arrow.

When done, mount the wall bracket on the wall.



There are two hinges(left and right). Use the correct one.

A - Captive Screw

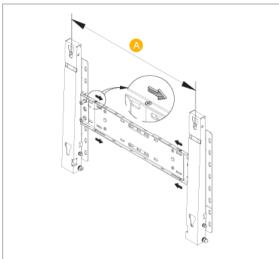
B - Wall Bracket

C - Hinge (Left)

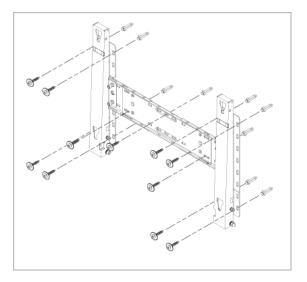
D - Hinge (Right)

2. Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct.

If the length is too short or long, loosen all or some of the 4screws on the wall bracket to adjust the length.



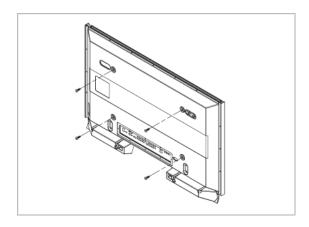
- A Length between the two locking holes
- 3. Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws A.



To mount the product on the wall bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)

1. Remove the 4 screws on the back of the product.

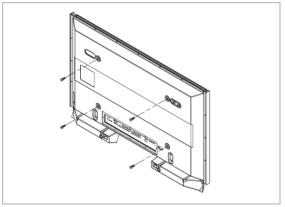


2. Insert the screw B into the plastic hanger.

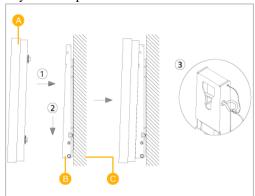




- Mount the product on the wall bracket and make sure it is properly fixed to the left and right plastic hangers.
- Be careful when installing the product on the bracket as fingers can be caught in the holes.
- Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.
- 3. Tighten the 4 screws in step 2 (plastic hanger + screw B)to the rear holes of the product.



4. Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product(2) so that it is firmly fixed to the bracket. Make sure to re-insert and tighten the safety pin (3) to securely hold the product to the bracket.



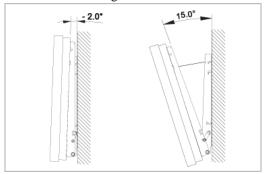
A - LCD Display

B - Wall Bracket

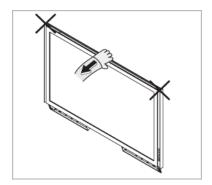
C - Wall

Wall Bracket Angle Adjustment

Adjust the bracket angle to -2° before installing it on the wall.



- 1. Fix the product to the wall bracket.
- 2. Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle.
- 3. You can adjust the bracket angle between -2° and 15° .



Make sure to use the top center, and not the left or the right side of the product to adjust the angle.

Connections

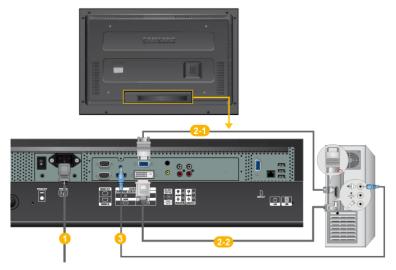
Connecting a Computer

Using a Power cord with Earth

In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.



AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.



- 1 Connect the power cord for your LCD Display to the power port on the back of the LCD Display. Turn on the power switch.
- 2 There are 2 ways to connect the D-sub to your LCD Display. Choose one of the following:
 - 2-1 Using the D-sub (Analog) connector on the video card.
 - Connect the D-sub to the 15-pin, RGB port on the back of your LCD Display and the 15 pin D-sub Port on the computer.



- 2-2 Using the DVI (Digital) connector on the video card.
- Connect the DVI Cable to the DVI port on the back of your LCD Display and the DVI port on the computer.



3 Connect the audio cable for your LCD Display to the audio port on the back of your computer.



- Turn on both your computer and the LCD Display.
- The DVI cable is optional.
- Contact a local SAMSUNG Electronics Service Center to buy optional items.

Connecting to Other devices

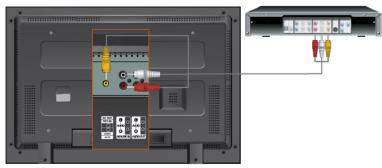
Using a Power cord with Earth

In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.



AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.

Connecting AV Devices

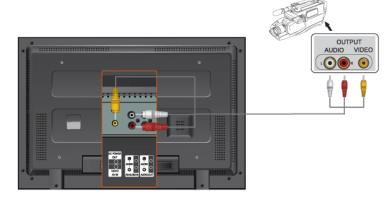


- 1. Connect the port of the DVD, VCR (DVD / DTV Set-Top Box) to the [R-AUDIO-L] port of the LCD Display.
- 2. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.
- 3. Select **AV** using the SOURCE.



The LCD Display has AV connection terminals to connect AV input devices like DVDs, VCRs or Camcorders. You may enjoy AV signals as long as the LCD Display is turned on.

Connecting to a Camcorder

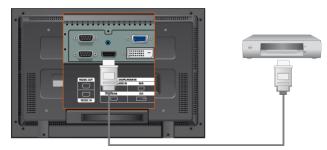


- 1. Locate the AV output jacks on the camcorder. They are usually found on the side or back of the camcorder. Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the AV AUDIO IN [L-AUDIO-R] on the LCD Display.
- 2. Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the AV IN [VIDEO] on the LCD Display .
- 3. Select **AV** for the Camcorder connection using the Source button on the front of the LCD Display or on the remote control.
- 4. Then, start the Camcorders with a tape inserted.



The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

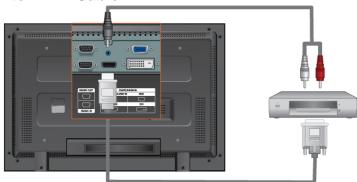
Connecting Using a HDMI Cable





- Input devices such as digital DVD are connected to the HDMI terminal of the LCD Display using the HDMI cable.
- You cannot connect a PC to the HDMI terminal.

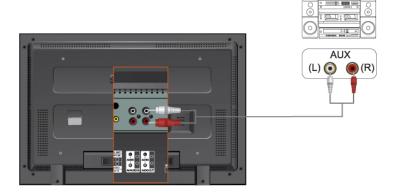
Connecting Using a DVI to HDMI Cable





- Connect the DVI output terminal of a digital output device to the HDMI terminal of the LCD Display using a DVI to HDMI cable.
- Connect the red and white jacks of an RCA to stereo (for PC) cable to the same colored audio
 output terminals of the digital output device, and connect the opposite jack to the DVI/PC/HDMI
 AUDIO IN terminal of the LCD Display.

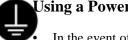
Connecting to an Audio System





 Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and AUDIO OUT [L-AUDIO-R] on LCD Display.

Connecting a LAN Cable

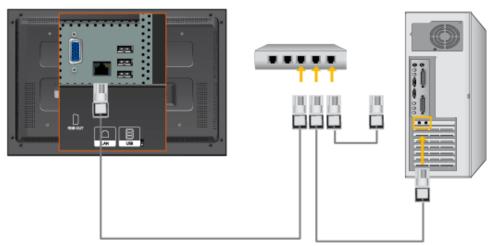


Using a Power cord with Earth

In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.



AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.





Connect the LAN cable.

Connecting a USB device

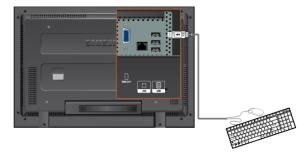


Using a Power cord with Earth

In the event of failure, the earth lead may cause electric shock. Make sure to wire the earth lead in correctly, before connecting the AC power. When unwiring the earth lead, make sure to disconnect the AC power in advance.



AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the contents under Adjusting Your LCD Display.





You can connect USB devices such as a mouse or keyboard.

Using the Software

Monitor Driver



When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

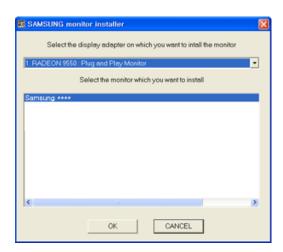
Prepare a blank disk and download the driver program file at the Internet web site shown here.

Internet web site:

http://www.samsung.com/ (Worldwide)

Installing the Monitor Driver (Automatic)

- 1. Insert CD into the CD-ROM drive.
- 2. Click "Windows".
- 3. Choose your monitor model in the model list, then click the "OK" button.



4. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button (Microsoft[®] Windows[®] XP/2000 Operating System).





This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

Installing the Monitor Driver (Manual)

Microsoft® Windows VistaTM, Operating System

- 1. Insert your Manual CD into your CD-ROM drive.
- Click (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".





3. Click "Personalization" and then "Display Settings".



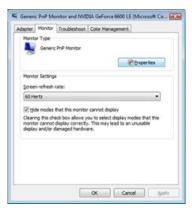


4. Click "Advanced Settings...".



5. Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.

If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".



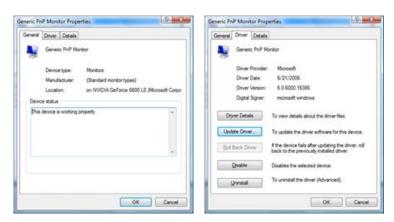




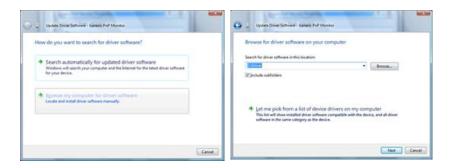
This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

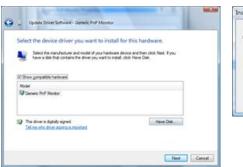
6. Click "Update Driver..." in the "Driver" tab.



7. Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".

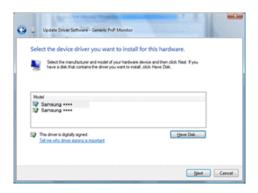


8. Click "Have Disk..." and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".



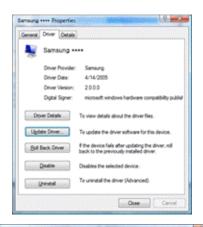


9. Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".



10. Click "Close" "Close" "OK" "OK" on the following screens displayed in sequence.







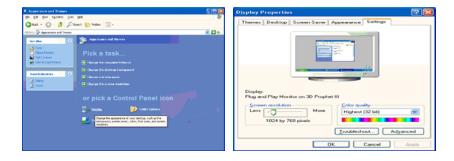


Microsoft® Windows® XP Operating System

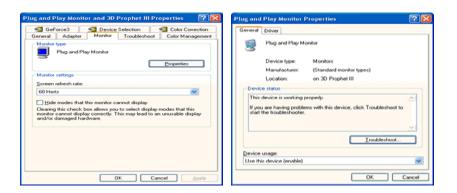
- 1. Insert CD into the CD-ROM drive.
- 2. Click "Start" "Control Panel" then click the "Appearance and Themes" icon.



3. Click "Display" icon and choose the "Settings" tab then click "Advanced...".



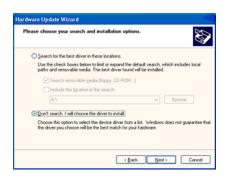
4. Click the "Properties" button on the "Monitor" tab and select "Driver" tab.

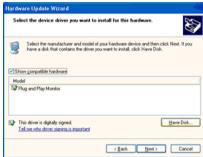


5. Click "Update Driver..." and select "Install from a list or..." then click "Next" button.

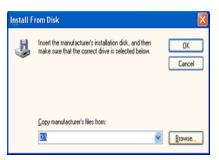


6. Select "Don't search, I will..." then click "Next" and then click "Have disk".





7. Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.





8. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button.





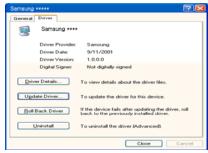
This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

9. Click the "Close" button then click "OK" button continually.







10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

- 1. Choose "OK" button on the "Insert disk" window.
- 2. Click the "Browse" button on the "File Needed" window.
- 3. Choose A:(D:\Driver) then click the "Open" button and then click "OK" button.

How to install

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click the "Display" icon.
- 3. Select the "Settings" tab and click "Advanced Properties" button.
- 4. Choose "Monitor".

Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation

Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.

- 5. Click "Driver" and then click on "Update Driver..." then click on the "Next" button.
- 6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
- 7. Click the "Browse" button then choose A:(D:\Driver).
- 8. Click the "Open" button, then click "OK" button.
- 9. Choose your monitor model and click the "Next" button then click "Next" button.
- 10. Click the "Finish" button then the "Close" button.

If you can see the "Digital Signature Not Found" window then click the "Yes" button. And click the "Finish" button then the "Close" button.

Microsoft® Windows® Millennium Operating System

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click the "Display" icon.
- 3. Select the "Settings" tab and click "Advanced Properties" button.

- 4. Select the "Monitor" tab.
- 5. Click the "Change" button in the "Monitor Type" area.
- 6. Choose "Specify the location of the driver".
- 7. Choose "Display a list of all the driver in a specific location..." then click "Next" button.
- 8. Click the "Have Disk" button.
- 9. Specify A:\(D:\\driver\) then click "OK" button.
- 10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
- 11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

Microsoft® Windows® NT Operating System

- 1. Click "Start", "Settings", "Control Panel", and then double-click "Display" icon.
- 2. In Display Registration Information window, click Settings Tab and then click "All Display Modes".
- 3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
- 4. Click "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).



If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

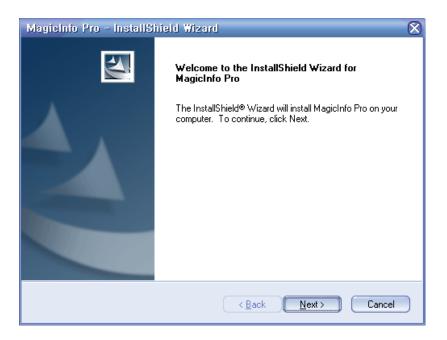
To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

- 1. Press "Enter" at the first and the second screen after executing the X86Config file.
- 2. The third screen is for setting your mouse.
- 3. Set a mouse for your computer.
- 4. The next screen is for selecting a keyboard.
- 5. Set a Keyboard for your computer.
- 6. The next screen is for setting your monitor.
- 7. First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.)
- 8. Set a vertical frequency for your monitor. (You can enter the frequency directly.)
- 9. Enter the model name of your monitor. This information will not affect the actual execution of X-Window.
- 10. You have finished setting up your monitor. Execute X-Window after setting other requested hardware.

Installation MagicInfo Pro

Installation

- 1. Insert CD into the CD-ROM drive.
- 2. Click the MagicInfo Pro installation file.
- 3. When the Install Shield Wizard window appears, click "Next."



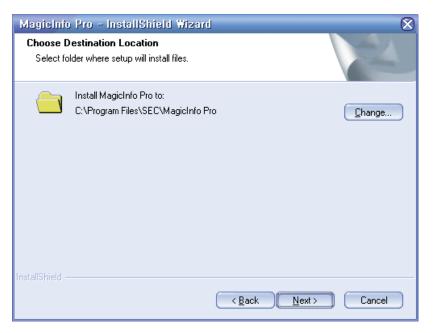
4. Select "I agree to the terms of the license agreement" to accept the terms of use.



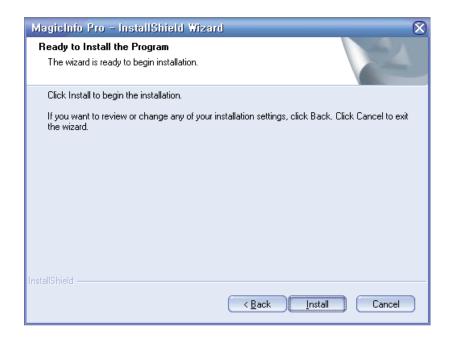
5. You are required to log in to the MagicInfo Pro Server program. Please enter the password to login. The password cannot be changed when you are logged in.



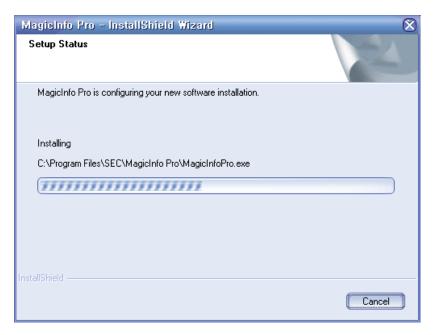
6. Choose a folder to install the MagicInfo Pro program.



7. Click "Install."



8. The "Installation Status" window appears.



9. It is recommended restarting the system for the normal operation of the MagicInfo Pro Server program. Click "Finish".



10. When the installation is complete, the MagicInfo Pro executable icon appears on your desktop.



11. Double-click the icon to start the program.

System Requirements

	CPU	RAM	Ethernet	OS	Application	
Minimum Recommended	P1.8 P3.0GHz	256M 512M	100M/1G	Windows XP Windows 2000 (Service Pack 4)	WMP 9 later	or

IRTOUCH

IRTouch Screen Control Panel

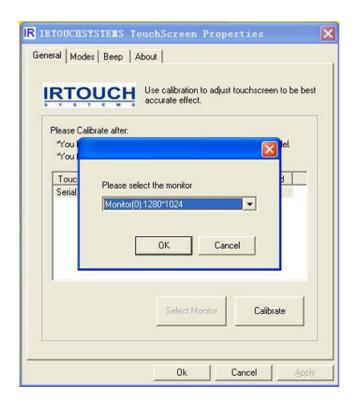
Double click the mark on the tabletop (as the following indication), or follow "Start" -> "All programs" -> "IRTouchSystems", and then click "IR TouchScreen Control Panel" and go to the Control Panel of the touchscreen as following.



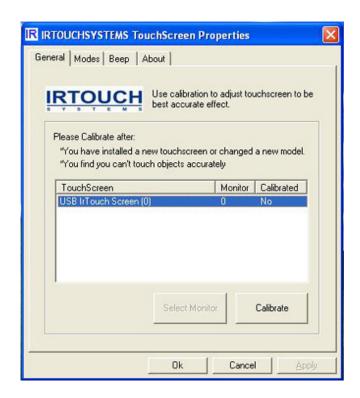


General Control Panel menu

1. The control panel provides adjustment and configuration with USB and IR touchscreen of serial port and supports compatibility of multi-touchscreens at the same PC. This window shows the basic information of the touchscreen and calibration. If several touchscreens are mounted on the PC and status is set "multi-screens display", user may use the button [Select Monitor] and must choose monitor related to each touchscreen before calibration, otherwise the touchscreen won't work. The setting of multi-touchscreens at the same PC comprising of Steps: the butt mark will appear on the center of each monitor screen in master slave sequence operated by program after user clicks "Select Monitor". If does so, use may click the center of the butt mark so as to acknowledge the mounted-touchscreen. If there is no information of touchscreen on the monitor, user is required to press "Esc" or wait for 15 seconds, then program will pass the current the setting of touchscreen and continue automatically the next one; Double click the setting of touchscreen in the list. User may select the monitor related to each IR touchscreen and click "OK" representing the save and exit after the select-dialog box pops up. Finishing the above operations, program will show the number of monitor relevant to each touchscreen in the list of "Monitor".

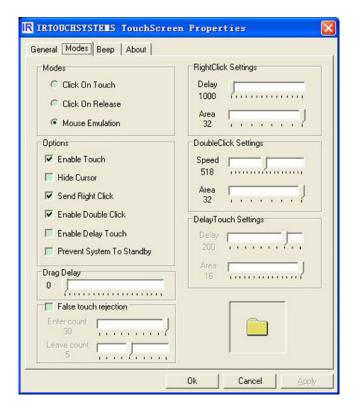


2. Select the touchscreen you want in the list and Click [Calibrate]. After calibration, the item "Calibrated" will show "Yes".



Calibration compromising of steps: select a touchscreen in the information list, then click "calibrate" button when the calibration window shows up. Calibration is done by clicking on 4 calibration points so that user only clicks the center of the bull's-eye in sequence. If failing to hit the bull's eye, user may move the pointer or fingers to the center of it again and lift based on the utilization of Click on Release when calibration. Press 'Esc" button to exit calibration. After calibration the "recalibrate", "OK", "cancel" buttons will show up. "ReCalibrate" means recalibration; "OK" means saving and exit; "Cancel" means exit without saving.

Modes Setting



Click on touch

Mouse single click event happens immediately at the point when the finger contact the touchscreen, not for dragging objects. In this mode the touchscreen responds fastest, it's usually used for big button applications.

2. Click on Release

Mouse click event happens at the point where the finger leaves touchscreen; in this mode the finger moving position is followed by eyes and precisely controlled, therefore it's suitable for small buttons or hyperlink of web pages, such as POS, WEB applications.

3. Mouse Emulation

This is the default mode. Full emulation of mouse functions including left-button click, moving, lifting, and dragging; if writing, drawing, or dragging map are required, this mode is well suitable to the above application.

4. Enable Touch

Enable(default)/disable touchscreen;

5. Hide Cursor

Hide cursor without closedown of the mouse function; because Mouse cursor is not used in some applications but always is applied to such filed as big button, playing animation, or children education in "Click On Touch" mode.

6. Send Right Click

To enable right-click function(default). Click and press on any area on the screen for two seconds, the right-click pop-up menu will show up. Right-click is only available in Mouse Emulation mode. User may adjust the number of "delay" in "Right Click Settings" if finding the pop-up time is

either fast or slow. Notice: the higher the value, the slower the pop-up time. "Delay" unit is "millisecond". The "area" is used for adjusting the jitter-range of the touch surface within limit of error (unit: pixel). The higher the value, the wider the jitter-range. Right Click menu will pop up so long as the finger contacts the screen for a while within the range.

7. Enable Double Click

Same as the function of Mouse Double Click. Double click on the same setting area of objects in a short time. The "Double Click Settings" property can be set so as to get the best performance on Double Click. "Speed" unit is "millisecond". The higher the value, the longer the effective time interval between the double clicks raising the function of Double Click. "Area" is used for either amplifying or reducing the Double Click area. The higher the value (unit: pixel), the more sensitive the response of Double Click. Double-click should be utilized in the applications such as "Click on touch", "Click on Release", "Mouse Emulation".

8. Enable Delay Touch

After this function is enabled, high speed touch or scratch on the screen becomes ineffective. It is the very effective for touch to maintain steadily for a time in specified area. This function is for banking and industrial control applications, such as ATM, Switches of industrial equipment and used in both Click on touch and Click on Release modes. The "Delay Touch Setting" properties can be set selectively. The higher the value (unit:millisecond), the longer the touch-delay time; "area" is utilized to regulate the effective area in which finger maintains on the touch plane. The higher the value (unit: pixel), the wider the effective area.

9. Prevent System to Standby

Unable (default); this function may prevent System from Standby. When the IR touchscreen is provided with serial ports as a simple output device, the function may enable recovery out of the state of automatic system standby.

10. Drag Delay

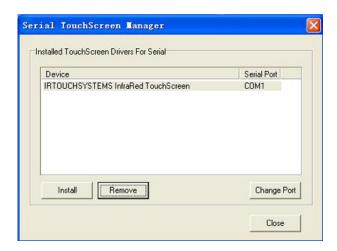
The function show the amount of millisecond "Drag Delay" will take to be enabled after you click that. Drag Delay may be adjusted to the correct value if the object can not be precisely selected or if jitter happens to cursor when you touch. The unit is millisecond.

11. False touch rejection

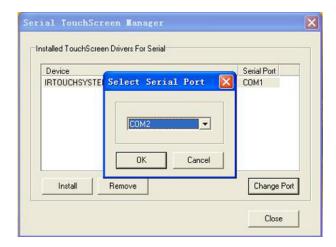
The snow and rain drop will be mistakenly a single touch. So the function of "False touch rejection" may be selected in driver to avoid the above error without the normal manipulation. The function of "Enable Delay Touch" will do the work to prevent the false touch. Instructions see Attachment: Setting of touchscreen in strong light, rain and snow condition.

Serial port Settings

Installation of the driver of serial port finished, choose "start" - "All Programs" - "IRTOUCH-SYSTEMS" - "Serial Port Settings". In the list show both the name of IR touch device installed and the number of the serial ports. You may choose [Install] when some serial ports are available or choose [Remove] to uninstall the driver if you don't want to use the touchscreen.



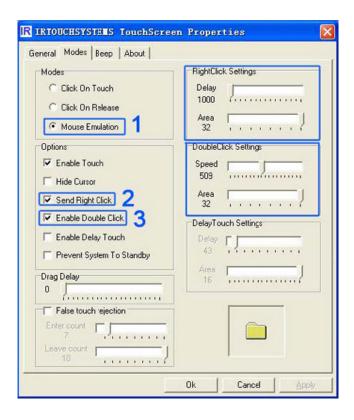
2. Click [Change Port] to set and change setting of the selected Serial Port.



Attachment

The general setting of touchscreen

Select "Mouse Emulation" mode, then choose "Enable Touch" Send Right ClickEnable DoubleClick. In general functions of Enable Delay Touch and False touch rejection may not selected to avoidslowing the touch response. It is proved null if you quickly click or drag the touch point.

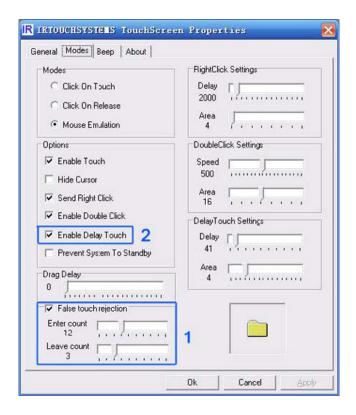


Installment

- Send Right Click: To enable right-click function (default). Click and press on any area on the screen for two second, the right-click menu will pop-up. Right-click is only available in Mouse Emulation mode. The "Delay" value is 1000(1second); The "Area" value is set to 32px at optimum.
- Enable Double Click: Same as the function of Mouse Double Click. Double click on the same setting area of objects in a short time may open up the object. "Speed" unit is at 500 to 550. "Area" unit is 32px.
- Drag Delay: The function show the amount of millisecond "Drag Delay" will take to be enabled
 after you click that. Drag Delay may be adjusted to the correct value if the object cannot be
 precisely selected or if jitter happens to cursor when you touch. The unit is millisecond.

Setting of touchscreen in strong light, rain and snow condition

The snow and rain drop will be mistakenly a single touch. So the function of "False touch rejection" maybe selected in driver to avoid the above error without the normal manipulation. The function of "EnableDelay Touch" will do the work to prevent the false touch.



Specification

- 1. Each value should be gradually set in "Delay Touch Settings" after fulfillment of "Enable Delay Touch". "Delay" is set to 40 and "Area" to 16.
- 2. Enter count: It means how many times you click to approach the setting value within 3 seconds. Then driver will install the function of "False touch rejection" where quick click or scratch will be considered void except the touch point on the active area for quite a while.
- 3. Leave count: "False touch rejection" is no longer effective when the click times within 5 seconds is less than the setting number.

Adjusting the LCD Display

Input

Available Modes

- PC/DVI
- AV
- **⊞** HDMI
- MagicInfo



The **TV** menu is available when a TV tuner box is installed.

Source List PAHM

MENU ENTER [Input] ENTER [Source List]



▲,▼ ENTER

Use to select **PC**, **DVI** or other external input sources connected to the LCD Display. Use to select the screen of your choice.

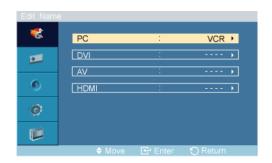
- 1. **PC**
- 2. **DVI**
- 3. **AV**
- 4. **HDMI**
- 5. MagicInfo



- The direct button on the remote control is the 'SOURCE' button.
- For **PC** and **DVI**, this is deactivated if the cable is disconnected.

Edit Name PAHM

MENU ENTER [Input] ▼ ENTER [Edit Name]



▲,▼ ENTER

Name the input device connected to the input jacks to make your input source selection easier.

- 1. **PC**
- 2. **DVI**
- 3. **AV**
- 4. **HDMI**

Picture [PC / DVI / MagicInfo Mode]

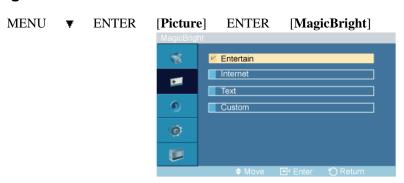
Available Modes

- PC/DVI
- 🔼 AV
- 🗓 HDMI
- MagicInfo



The **TV** menu is available when a TV tuner box is installed.

MagicBright PM



▲,▼ ENTER

MagicBright is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: **Entertain**, **Internet**, **Text** and **Custom**. Each mode has its own pre-configured brightness value. You can easily select one of the four settings by simply pressing the **MagicBright** control button.

(Not available in **Dynamic Contrast** mode of **On**.)

1. Entertain

High brightness

For watching motion pictures such as a DVD or VCR.

2. Internet

Medium brightness

For working with a mixture of images such as texts and graphics.

3. Text

Normal brightness

For documents or works involving heavy text.

4. Custom

Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.

If this is the case, adjust the brightness and contrast by using the OSD menu.

Custom PM

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU ▼ ENTER [Picture] ▼ ENTER [Custom]

(Not available in **Dynamic Contrast** mode of **On**.)



By adjusting the picture using the Custom function, MagicBright will change to Custom mode.

Contrast



◄, ▶ ENTER

Adjusts the Contrast.

Brightness



◄, ► ENTER

Adjusts the Brightness.

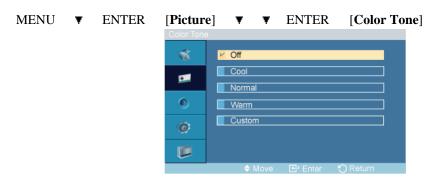
Sharpness



◄, ► ENTER

Adjusts the Sharpness.

Color Tone PM



▲,▼ ENTER

The color tones can be changed.

(Not available in **Dynamic Contrast** mode of **On**.)

- 1. **Off**
- 2. Cool
- 3. Normal
- 4. Warm
- 5. Custom



If you set the Color Tone to Cool, Normal, Warm, or Custom, the Color Temp function is disabled.

If you set the Color Tone to Off, the Color Control function is disabled

Color Control PM

Adjusts individual Red, Green, Blue color balance.

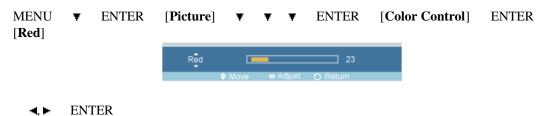
MENU ▼ ENTER [Picture] ▼ ▼ ▼ ENTER [Color Control]

(Not available in **Dynamic Contrast** mode of **On**.)

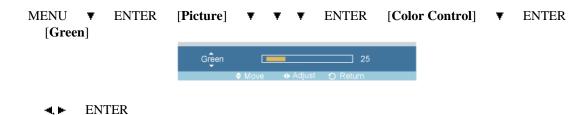


If you adjust the picture by using the **Color Control** function, **Color Tone** will turn to the **Custom** mode.

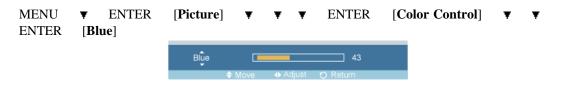
Red



Green



Blue



◄, ▶ ENTER

Color Temp PM



◄, ▶ ENTER

Color Temp is a measure of the 'warmth' of the image colors.

(Not available in **Dynamic Contrast** mode of **On**.)



This function is only enabled if the Color Tone is set to Off.

Image Lock P

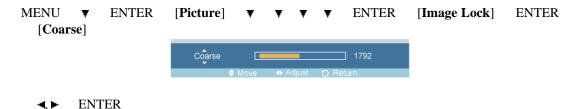
Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitters and shakiness. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)

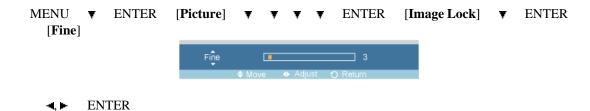
MENU ▼ ENTER [Picture] ▼ ▼ ▼ ENTER [Image Lock]

Coarse



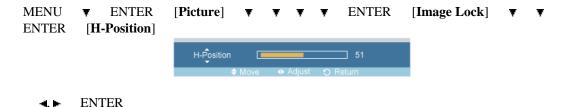
Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu.

Fine



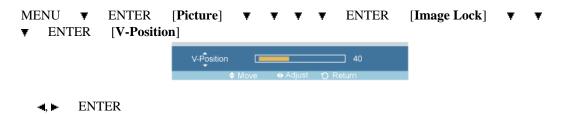
Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed).

H-Position



Adjusts the screen location horizontally.

V-Position



Adjusts the screen location vertically.

Auto Adjustment 🛂



The values of **Fine**, **Coarse**, **Position** are adjusted automatically. By changing the resolution in the control panel, the auto function is performed.

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)



The direct button on the remote control is the 'AUTO' button.

Signal Balance 12

This is used to make up for the weak RGB signal transmitted by a long signal cable.

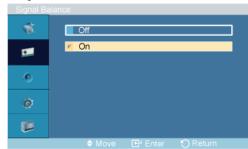
MENU ▼ ENTER [Picture] ▼ ▼ ▼ ▼ ▼ ENTER [Signal Balance]

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)

Signal Balance

MENU ▼ ENTER [Picture] ▼ ▼ ▼ ▼ ▼ ENTER [Signal Balance] ENTER [Signal Balance]



▲,▼ ENTER

Selects either **On** or **Off** with the signal control.

Signal Control

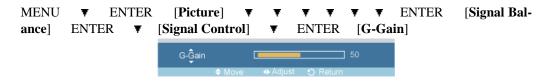
MENU ▼ ENTER [Picture] ▼ ▼ ▼ ▼ ▼ ENTER [Signal Balance] ENTER ▼ [Signal Control]

1. R-Gain



◄, ► ENTER

2. G-Gain



◄.▶ ENTER

3. **B-Gain**

MENU V ENTER [Picture] V V V V ENTER [Signal Balance] ENTER V [Signal Control] V V ENTER [B-Gain]

◄, ► ENTER

4. R-Offset

MENU V ENTER [Picture] V V V V ENTER [Signal Balance] ENTER V [Signal Control] V V V ENTER [R-Offset]

◄, ▶ ENTER

5. G-Offset

MENU ▼ ENTER [Picture] ▼ ▼ ▼ ▼ ▼ ENTER [Signal Balance] ENTER ▼ [Signal Control] ▼ ▼ ▼ ENTER [G-Offset]

G-Offset

Move ◆ Adjust ○ Return

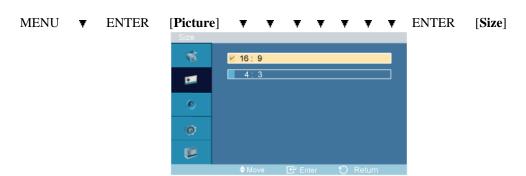
◄, ► ENTER

6. **B-Offset**

MENU V ENTER [Picture] V V V V ENTER [Signal Balance] ENTER V [Signal Control] V V V V ENTER [B-Offset]

◄. ► ENTER

Size 📔



▲,▼ ENTER

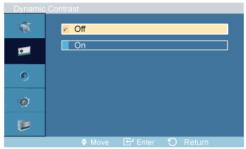
The Size can be switched.

(Not available in **Dynamic Contrast** mode of **On**.)

- 1. **16:9**
- 2. **4:3**

Dynamic Contrast PM

MENU \forall ENTER [Picture] \forall \forall \forall \forall \forall \forall ENTER [Dynamic Contrast]



▲,▼ ENTER

Dynamic Contrast automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

- 1. **Off**
- 2. **On**

Picture [AV / HDMI Mode]

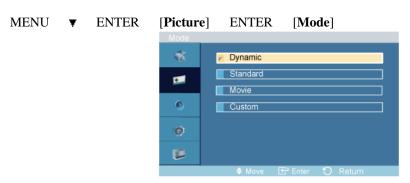
Available Modes

- PC/DVI
- 🔼 AV
- 🗓 HDMI
- MagicInfo



The **TV** menu is available when a TV tuner box is installed.

Mode All



▲,▼ ENTER

The LCD Display has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory.

Dynamic, Standard, Movie, or Custom can be activated.

(Not available in **Dynamic Contrast** mode of **On**.)

- 1. **Dynamic**
- 2. Standard
- 3. Movie
- 4. Custom



The direct button on the remote control is the 'P.MODE' button.

Custom All

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU ▼ ENTER [Picture] ▼ ENTER [Custom]

(Not available in **Dynamic Contrast** mode of **On**.)

Contrast



◄, ▶ ENTER

Adjusts the Contrast.

Brightness



◄,▶ ENTER

Adjusts the Brightness.

Sharpness



◄, ► ENTER

Adjusts the picture Sharpness.

Color

MENU \blacktriangledown ENTER [Picture] \blacktriangledown ENTER [Custom] \blacktriangledown \blacktriangledown ENTER [Color]



◄, ► ENTER

Adjusts the picture Color.

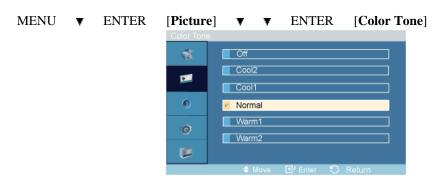
Tint



◄, ► ENTER

Adds a natural tone to the display.

Color Tone All



▲,▼ ENTER

The color tones can be changed. The individual Color components are also user adjustable.

(Not available in **Dynamic Contrast** mode of **On**.)

- 1. **Off**
- 2. **Cool2**
- 3. **Cool1**
- 4. Normal
- 5. Warm1
- 6. Warm2



If you set the Color Tone to Cool2, Cool1, Normal, Warm1, or Warm2, the Color Temp function is disabled.

Color Temp All

MENU ▼ ENTER [Picture] ▼ ▼ ▼ ENTER [Color Temp]



◄, ► ENTER

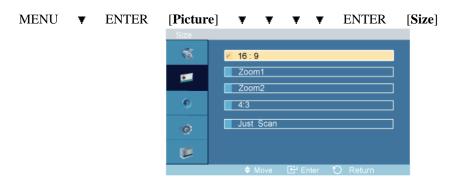
Color temp is a measure of the 'warmth' of the image colors.

(Not available in **Dynamic Contrast** mode of **On**.)



This function is only enabled if the Color Tone is set to Off.

Size All



▲,▼ ENTER

The **Size** can be switched.

- 1. **16:9**
- 2. **Zoom 1**
- 3. **Zoom 2**
- 4. **4:3**
- 5. Just Scan

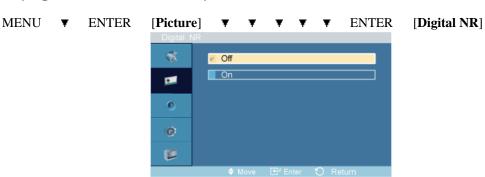
(Not available in **Dynamic Contrast** mode of **On**.)



The Zoom1, Zoom2 are not available HDMI.

The Just Scan are available in HDMI.

Digital NR (Digital Noise Reduction)



▲,▼ ENTER

Turns the Digital Noise Reduction feature **Off/On**. The Digital Noise Reduction feature allows you to enjoy clearer and crisper images.

- 1. **Off**
- 2. **On**

Film Mode [A



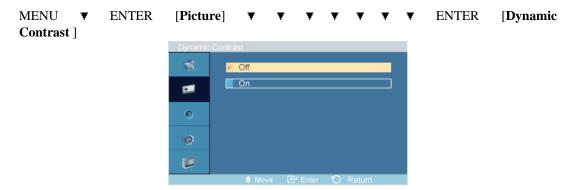
▲,▼ ENTER

The **Film Mode** feature offers you a theater-quality viewing experience.

(In **HDMI** mode, this function can be available when the input signal is interlaced scan; it cannot be available with progressive scan signal.)

- 1. **Off**
- 2. **On**

Dynamic Contrast All



▲, ▼ ENTER

Dynamic Contrast automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

- 1. **Off**
- 2. **On**

Sound

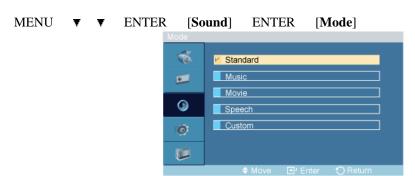
Available Modes

- PC/DVI
- 🔼 AV
- **HDMI**
- MagicInfo



The **TV** menu is available when a TV tuner box is installed.

Mode PAHM



▲,▼ ENTER

The LCD Display has a built-in high fidelity stereo amplifier.

1. Standard

Selects **Standard** for the standard factory settings.

2. Music

Selects Music when watching music videos or concerts.

3. Movie

Selects Movie when viewing movies.

4. Speech

Selects **Speech** when watching a show that is mostly dialogue (i.e., news).

5. Custom

Selects Custom if you want to adjust the settings according to your personal preferences.

Custom PAHM

The sound settings can be adjusted to suit your personal preferences.

MENU ▼ ▼ ENTER [Sound] ▼ ENTER [Custom]



- You can hear the sound even when sound value is set to 0.
- If you adjust sound using **Custom** function, **Mode** will turn to **Custom** mode.

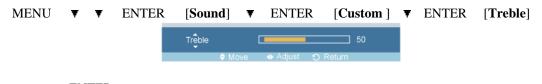
Bass



◄, ► ENTER

Emphasizes low frequency audio.

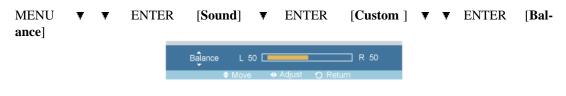
Treble



◄, ► ENTER

Emphasizes high frequency audio.

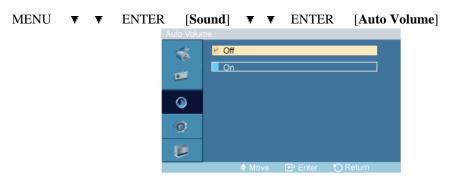
Balance



◄, ► ENTER

Allows you to Adjusts the sound balance between the left and right speakers.

Auto Volume PAHM

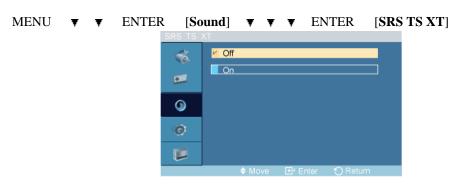


▲,▼ ENTER

Reduces the difference in volume control between broadcasters.

- 1. **Off**
- 2. **On**

SRS TS XT PAHM



▲.▼ ENTER

SRS TS XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

- 1. **Off**
- 2. **On**



The direct button on the remote control is the 'SRS' button.

Setup

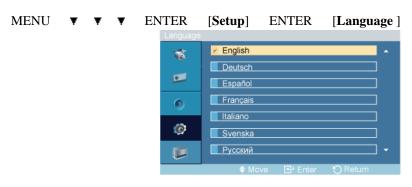
Available Modes

- PC/DVI
- AV
- 🔢 HDMI
- MagicInfo



The **TV** menu is available when a TV tuner box is installed.

Language PAHM



▲,▼ ENTER

You can choose one of 11 languages.

English,Deutsch,Español,Français,Italiano,Svenska,Русский Português, 中国语, 日本語,한국어



The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

Time PAHM

Selects from one of 4 time settings, Clock Set, Sleep Timer, On Timer, and Off Timer.

MENU ▼ ▼ ▼ ENTER [Setup] ▼ ENTER [Time]

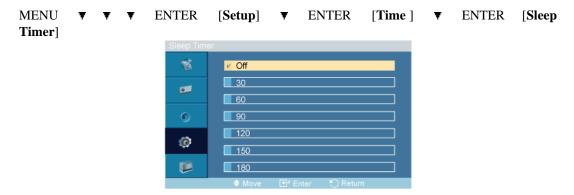
Clock Set



▲, ▼/**◄**, ► ENTER

Current Time Setting.

Sleep Timer



▲,▼ ENTER

Turns the LCD Display off automatically at certain times.

- 1. **Off**
- 2. **30**
- 3. **60**
- 4. 90

- 5. 120
- 6. **150**
- 7. **180**

On Timer

MENU \blacktriangledown \blacktriangledown ENTER [Setup] \blacktriangledown ENTER [Time] \blacktriangledown \blacktriangledown ENTER [On Timer]



\blacktriangle , \blacktriangledown / \blacktriangleleft , \blacktriangleright ENTER

Turns the LCD Display on automatically at a preset time. Controls the mode and the volume level at the time the LCD Display turns on automatically.

Off Timer

MENU ▼ ▼ ▼ ENTER [Setup] ▼ ENTER [Time] ▼ ▼ ▼ ENTER [Off Timer]



▲, ▼/**◄**, ► ENTER

Turns the LCD Display off automatically at a preset time.

Menu Transparency PAHM

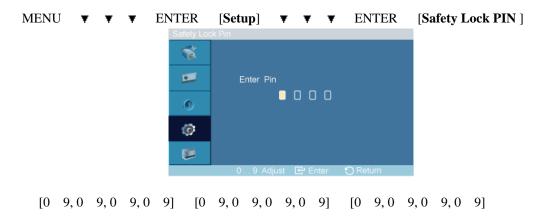


▲, ▼ ENTER

Change the transparency of the background of the OSD.

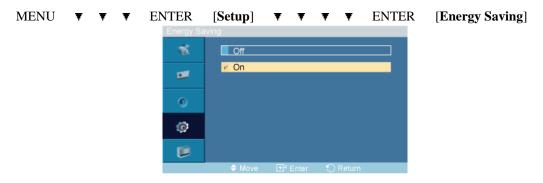
- 1. High
- 2. Medium
- 3. **Low**
- 4. Opaque

Safety Lock PIN PAHM



The password can be changed.

Energy Saving PAHM



▲,▼ ENTER

This feature adjusts the power consumption of the unit in order to save energy.

- 1. **Off**
- 2. **On**



If you want to reduce the standby power consumption, set **Energy Saving** to **On**. However, when **Energy Saving** is **On**, you cannot use the remote Power On function of the MDC and the WOL (Wake On LAN) function of MagicInfo.

HDMI Black Level

MENU \blacktriangledown \blacktriangledown ENTER [Setup] \blacktriangledown \blacktriangledown \blacktriangledown ENTER [HDMI Black Level]



▲.▼ ENTER

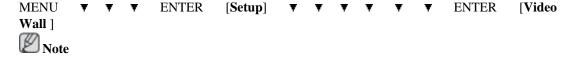
When a DVD or set-top box is connected to your TV via HDMI, it may cause a degradation in the screen quality, such as an increase in the black level, a low contrast, or discoloration, etc., depending on the external device connected. In this case, adjust the screen quality of your TV by configuring the **HDMI black level**.

- 1. Normal
- 2. **Low**

Video Wall

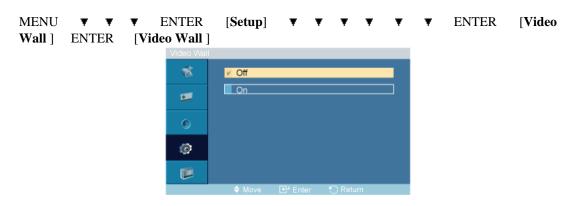
A **Video Wall** is a set of video screens connected together, so that each screen shows a part of the whole picture or where the same picture is repeated on each screen.

When the Video Wall is on, you can adjust the Video Wall screen setting.



When **Video Wall** is running, the **Auto Adjustment**, **Image Lock**, and **Size** functions are not available. **Video Wall** does not operate in **MagicInfo** mode.

Video Wall

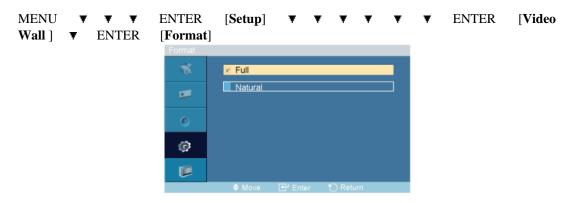


▲,▼ ENTER

Turns Off/On the Video Wall function of the selected display Off/On.

- 1. **Off**
- 2. **On**

Format



▲,▼ ENTER

The **Format** can be selected to see a divided screen.

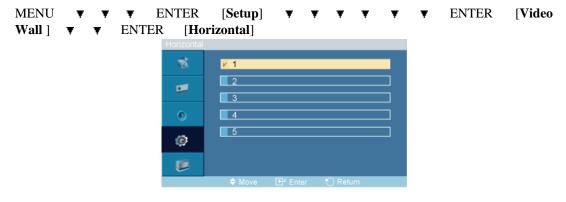
1. Full

Provides a full screen without any margins.

2. Natural

Displays a natural image with the original aspect ratio intact.

Horizontal

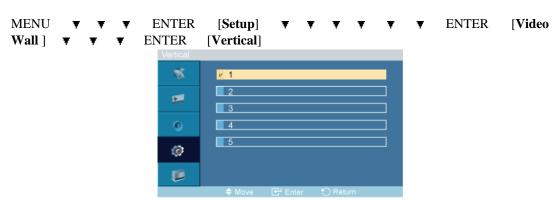


▲,▼ ENTER

Sets how many parts the screen should be divided horizontally.

Five adjustment levels: 1, 2, 3, 4, and 5.

Vertical

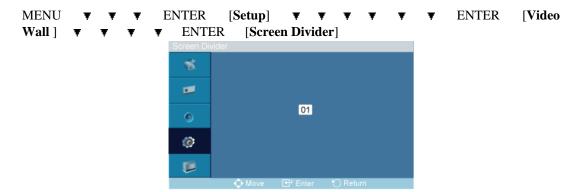


▲,▼ ENTER

Sets how many parts the screen should be divided vertically.

Five adjustment levels: 1, 2, 3, 4, and 5.

Screen Divider



The screen can be divided into several images. A number of screens can be selected with a different layout when dividing.

- Select a mode in Screen Divider.
- Select a display in Display Selection.
- The selection will be set up by pressing a number in the selected mode.

Safety Screen PAHM

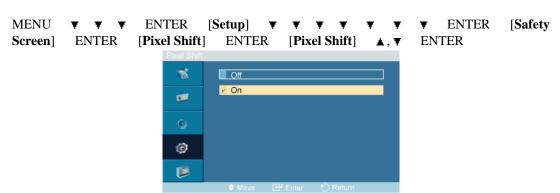
The **Safety Screen** function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time.

- The **Safety Screen** function scrolls the screen for the specified period of time.
- This function is not available when the power is turned off.

MENU \forall \forall ENTER [Setup] \forall \forall \forall \forall \forall ENTER [Safety Screen]

Pixel Shift

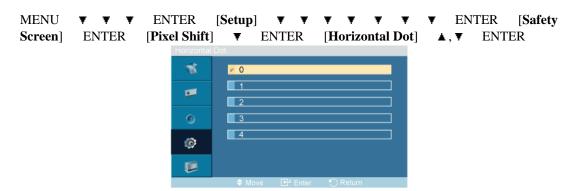
Pixel Shift



To prevent after-images on the screen you can use this function, so that every minute pixels on the PDP are moved in horizontal or vertical direction.

- 1. **Off**
- 2. **On**

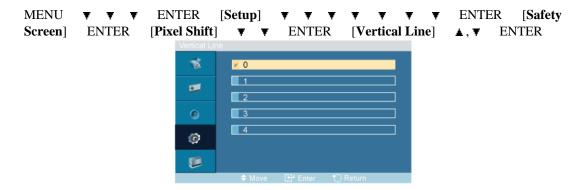
Horizontal Dot



Sets how many pixels the screen moves horizontally.

Five adjustment levels: 0, 1, 2, 3, and 4.

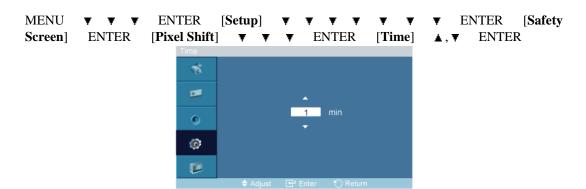
Vertical Line



Sets how many pixels the screen moves vertically.

Five adjustment levels: 0, 1, 2, 3, and 4.

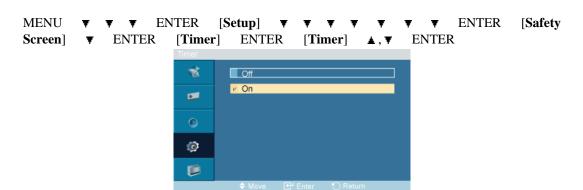
Time



Set the time interval for performing the horizontal or vertical movement, respectively.

Timer

Timer

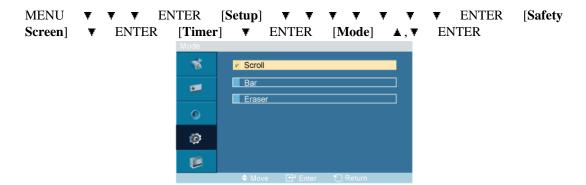


You can set the timer for Screen Burn Protection.

If you start the operation to erase any residual image, the operation will be performed for the set period of time and then automatically finish.

- 1. **Off**
- 2. **On**

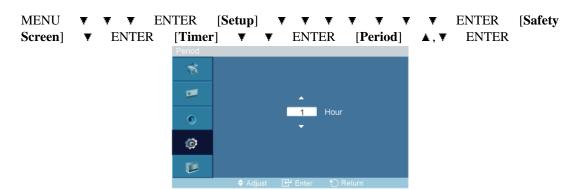
Mode



You can change the Safety Screen Type.

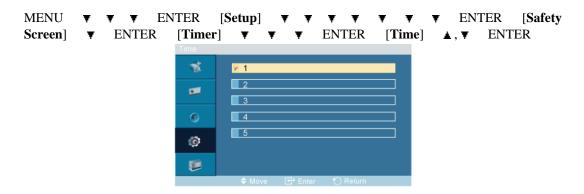
- 1. Scroll
- 2. Bar
- 3. Eraser

Period



Use this function to set the execution period for each mode set in the timer.

Time

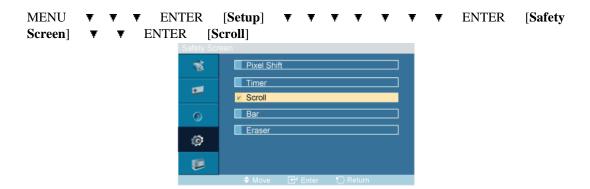


Within the set period of time specify a time for execution.

Mode-Scroll: 1~5 sec

• Mode-Bar, Eraser: 10~50 sec

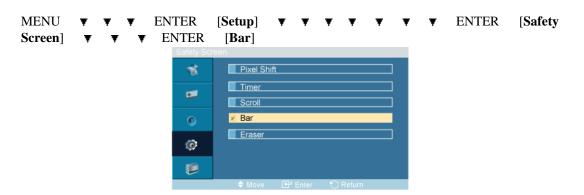
Scroll



This function prevents after-images on the screen by moving all the pixels on the PDP according to a pattern.

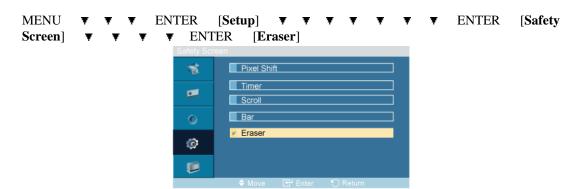
Use this function when there are remaining after-images or symbols on the screen, especially when you displayed a still image on the screen for a long time.

Bar



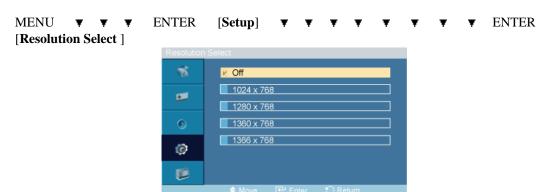
This function prevents after-images on the screen by moving long black and white vertical lines.

Eraser



This function prevents after-images on the screen by moving a rectangular pattern.

Resolution Select



▲,▼ ENTER

When the picture is not displayed properly on the screen when setting the graphics card resolution of the computer to $1024 \times 768 \otimes 60$ Hz, $1280 \times 768 \otimes 60$ Hz, $1360 \times 768 \otimes 60$ Hz or $1366 \times 768 \otimes 60$ Hz, by using this function(Resolution Select), you can have the picture displayed on the screen in the specified resolution.



Available in PC mode only

- 1. **Off**
- 2. 1024 X 768
- 3. **1280 X 768**
- 4. 1360 x 768
- 5. 1366 X 768



Selecting the menu is only allowed when the graphics resolution is set to $1024 \times 768 \otimes 60$ Hz, $1280 \times 768 \otimes 60$ Hz, $1360 \times 768 \otimes 60$ Hz or $1366 \times 768 \otimes 60$ Hz.

Power On Adjustment PAHM

MENU ▼ ▼ ▼ ENTER [Setup] ▼ ▼ ▼ ▼ ▼ ▼ ▼ ENTER [Power On Adjustment]



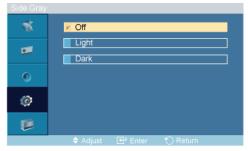
▲, ▼ ENTER

Adjusts the Power On time for the screen.



Caution: Set the Power On time to be longer to avoid overvoltage.

Side Gray PAHM



▲,▼ ENTER

Select the brightness of the grey for the screen background.

- 1. **Off**
- 2. Light
- 3. Dark

Reset

Reverts the product settings to factory defaults. The Reset function is only available when $PC \, / \, DVI$ is being used.

Image Reset P



◄,► ENTER



Available in PC mode only



The Reset function is not available when Video Wall is On.

Color Reset PAHM



∢, ► ENTER

Lamp Control PAHM





◄.▶ ENTER

Adjusts the inverter lamp in order to reduce energy consumption.



This function does not operate when **Dynamic Contrast** is set to **On** in **PC**, **DVI**, **AV**, **HDMI**, **TV** modes.

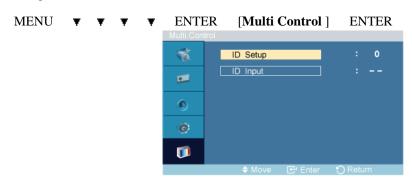
Multi Control

Available Modes

- PC/DVI
- AV
- HDMI
- MagicInfo

Multi Control PAHM

Assigns an individual ID to the SET.



▲, ▼ [0~9]

• ID Setup

Assigns distinctive IDs to the SET.

ID Input

Use to select the transmitter functions of the individual SET. Only a SET where the ID corresponds to the transmitter setting becomes activated.

MagicInfo

Available Modes

- PC/DVI
- AV
- HDMI
- MagicInfo



- The operating system for this set only supports English so the other languages might be corrupted on the screen.
- For **MagicInfo**, a remote control is available for **MagicInfo**. However, it is recommended using a separate USB keyboard.
- For **MagicInfo** in Device mode, moving external devices while booting may cause errors. Set up external devices only if the LCD Display turns on.
- Do not unplug the LAN cable used for the network (ex: video display). Otherwise, the program (MagicInfo) may stop. If you do unplug the cable, restart the system.
- Do not unplug the LAN cable used by an USB device (ex: video display). Otherwise, the program (MagicInfo) may stop.
- To access other sources, press the SOURCE button in **MagicInfo**.
- The preset password for the LCD Display is "000000".
- The server program's Power-On option works only if the LCD Display's power is completely shut off

Please make sure not to use the Power-On option when the LCD Display is in the process of shutting down since this may cause system errors on the LCD Display.

- In the OSD image of **MagicInfo**, Network mode is the same as Device.
- When using **MagicInfo** with the MagicInfo Pro Server Program: perform Network mode.
- When using **MagicInfo** with the device directly connected to LCD Display: execute Device mode.
- Press ALT + F12 to directly go to the **MagicInfo** Window screen.
- To setup MagicInfo on a Windows screen, a keyboard and mouse are required.

- To setup **MagicInfo** on a Windows screen, refer to the MagicInfo Server Help.
 - It is highly recommended not to turn off the AC power during an operation.
- For pivoted LCD Displays, ticker transparency is not supported.
- For pivoted LCD Displays, a screen resolution of up to 720*480(SD) is supported for movies.
- For drive D:, **EWF** is not applied.
- When the contents of Setup have been changed when **EWF** is in the **Enable** state, to save the changes in the disk, you must **Commit** them.
- By selecting **Disable**, **Enable** or **Commit**, the system is restarted.

MagicInfo



- 1. Select MagicInfo in the Source List menu.
- 2. The MUISetup screen appears. Select the language you want to use.
- 3. Press the Install button.

If you select Do not show again and click the Install button, the Scheduler screen is displayed after rebooting.

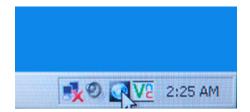


4. Connect your keyboard and mouse and press the "ALT + F12" keys on your keyboard.

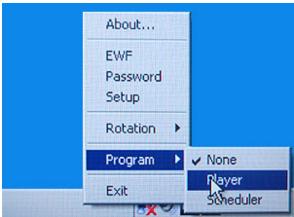
5. The Windows Desktop is displayed and the MagicInfo pro icon (the image will be inserted) appears. Move the cursor over the icon.



If the **MagicInfo** icon is not displayed on the notification area, double click the **MagicInfo** icon on the window desktop. The icon will appear.



6. Right-click on the MagicInfo pro icon (the image will be inserted) and select 'Program' --> 'Player' from the displayed menu.



7. The Player screen of MagicInfo pro is displayed.





To finish the **MagicInfo**, press ALT + F12.

Photo M

The JPEG, BMP file format are supported.

Auto



Automatically fits the image to the window.

Original

Shows the properties of the original file.

Slide Show



Displays the properties of the original file as they are.

Interval



Controls the time intervals between image files for a slide show. (5 Sec, 10 Sec, 20 Sec, 30 Sec, 60 Sec)

Rotation



Displays an image file by turning it clockwise by 90 degrees.

Zoom



Displays a reduced picture.

Close



Closes the image control Menu.

Music M



The MP3 file format is supported.

Movie™

The MPEG1, WMV file format are supported.

Play



Plays a movie file.

Full Size



Plays a movie file in full screen.

OFFICE / HTMLM



PPT(Power Point), DOC(MS Word), XLS(MS Excel), PDF, HTML, HTM files are displayed.



• Install the proper viewer(freeware) program to see the MS Office(Word, Excel, Power Point) or PDF doucuments.

Internet™



Connects to the Internet

Sets various functions in ${\bf MagicInfo}$ mode. A password must be entered to access ${\bf Setup}$ mode.

Schedule View



Displays a schedule.

TCP/IP



Changes the TCP/IP settings.

Connection



Modifies the network settings.

Password



The password can be changed.

- The password should be between 6 and 12 characters in numeric format.
 (You should enter a password between 6 and 12 characters in numeric format)
- If you enter the wrong password three times, the setup configuration is reset and a warning message appears from the server.
- If you forget the password, enter Info, 8, 2 and 4 on the remote control to initialize the password. This will reset the previous settings of Setup mode.

File



 $\boldsymbol{Local}: You \ can \ delete \ or \ copy \ files \ on \ both \ local \ and \ removable \ disks.$

Play Option



You can set the repeat play and screen settings.

Repeat : Determines the repeat option for playing movies and music.

- None Select No Repeat to play a movie or tune in the list only once.
- File Repeat Select Repeat File to play a movie or tune in the list repeatedly.
- List Repeat Select Repeat List to play movies or tunes in the list in sequence repeatedly.

Rotation - Sets the picture orientation.

- Landscape Sets the screen resolution to 1366x768 pixels.
- **Portrait** Sets the screen resolution to 1366x768 pixels.

EWF(Enhanced Write Filter): Prevents change to and loss of the data saved on the disk.

- **Disable** Disables **EWF** to allow saved data to be changed data on the protected disk (drive C:). When switching from the **Enable** to the **Disable** state, you can select **Commit**.
- Enable Enables EWF to prevent saved data to be changed on the protected disk (drive C:).
- Commit Commit the changed data to the protected disk (drive C:) when EWF is in the Enable state. Commit is not available when EWF is in the Disable state.

Troubleshooting

Self-Test Feature Check



Check the following items yourself before calling for assistance. Contact a Service Center for problems that you cannot solve by yourself.

Self-Test Feature Check

- 1. Turn off both your computer and the LCD Display.
- 2. Unplug the video cable from the back of the computer.
- 3. Turn on the LCD Display.

The figure shown below ("Check Signal Cable") appears on a black background when the LCD Display is working normally even though no video signal is detected: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.



4. Turn off your LCD Display and reconnect the video cable; then turn on both your computer and the LCD Display

If your LCD Display screen remains blank after using the previous procedure, check your video controller and computer system; your LCD Display is functioning properly.

Warning Messages

You can even view the screen at a resolution of 1360(1920) x 768(1080). However, you will receive the following message for a minute; You can choose to change the screen resolution or stay in the current mode during that time. And if the resolution is more than 85Hz, you will see the black screen because the LCD Display does not support over 85Hz.

Not Optimum Mode

Recommended Mode **** X *** 60Hz



Refer to Specifications > Preset Timing Modes for the resolutions or frequencies supported by the LCD Display.

Maintenance and Cleaning

1) Maintaining the LCD Display Case.

Clean with a soft cloth after disconnecting the power cord.



- Do not use benzene, thinner or other flammable substances, or a wet cloth.
- We recommend that a SAMSUNG cleansing agent is used to prevent damage to the screen.
- 2) Maintaining the Flat Panel Display Screen.

Clean with a soft cloth (cotton flannel) smoothly.



- Never use acetone, benzene or thinner.
 - (They may cause flaws or deformation of the screen surface.)
- The user will be required to pay costs and related expenses for repairing damages caused.

Symptoms and Recommended Actions



A LCD Display recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the LCD Display to become blank, have poor coloring, become noisy, and video mode not supported, etc. In this case, first check the source of the problem, and then contact a Service Center or your dealer.

- 1. Check if the power cord and the video cables are properly connected to the computer.
- 2. Check if the computer beeps more than 3 times when booting.

(If it does, request an a service for the main board of the computer.)

- 3. If you installed a new video card or if you assembled the PC, check if you installed the Adaptor (video).
- 4. Check if the scanning ratio of the video screen is set to between $50 \text{ Hz} \sim 85 \text{ Hz}$.

(Do not exceed 60Hz when using the maximum resolution.)

5. If you have problems in installing the Adaptor (video) driver, boot the computer in Safe Mode, remove the Display Adaptor in the "Control Panel System Device Administrator" and then reboot the computer to reinstall the Adaptor (video) driver.

Check List



- The following table lists possible problems and their solutions. Before calling for assistance, check the information in this section to see if you can remedy any problems for yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.
- For more network-related information, refer to the MagicInfo Troubleshooting section.

Problems related to the Installation (PC Mode)



Problems related to the LCD Display installation and their solutions are listed.

Q: The LCD Display screen flickers.

A: Check if the signal cable between the computer and the LCD Display is securely connected.

(Refer to Connecting a Computer)

Problems related to the Screen



Problems related to the LCD Display screen and their solutions are listed.

- Q: The screen is blank and the power indicator is off.
- A: Ensure that the power cord is firmly connected and the LCD Display is on.

(Refer to the Connecting a Computer)

- Q: "Check Signal Cable" message.
- A: Ensure that the signal cable is firmly connected to the PC or video sources.

(Refer to the Connecting a Computer)

- A: Ensure that the PC or video sources are turned on.
- Q: "Not Optimum Mode" message.
- A: Check the maximum resolution and the frequency of the video Adaptor.
- A: Compare these values with the data in the Preset Timing Modes Chart.
- Q: The picture rolls vertically.
- A: Check if the signal cable is securely connected. Re-connect it, if necessary.

(Refer to Connecting a Computer)

- Q: The image is not clear; picture is blurred.
- A: Run Frequency **Coarse** and **Fine** tuning.
- A: Turn on again after removing all accessories (video extension cable, etc.)
- A: Set the resolution and frequency to the recommended ranges.
- Q: The picture image is unstable and shakes.
- A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.
- Q: Ghost images are shown in the picture.
- A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.
- Q: The image is too light or too dark.
- A: Adjusts the **brightness** and **contrast**.

(Refer to the **Brightness**, **Contrast**)

O: The screen color is inconsistent.

- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- Q: The color image is distorted by dark shadows.
- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- Q: The color white is poor.
- A: Adjust color using **Custom** under OSD Color Adjustment menu.
- O: The Power Indicator blinks.
- A: The LCD Display is currently saving the changes made in the settings to the OSD memory.
- Q: The screen is blank and the power indicator light blinks every 0.5 or 1 seconds.
- A: The LCD Display is using its power management system.
- A: Press any key on the keyboard.
- Q: The screen is blank and it is blinking.
- A: If you see the "TEST GOOD" message on the screen when you pressing the MENU button, check the cable connection between the LCD Display and the computer to ensure that the connector is properly connected.

Problems related to Audio



Problems related to audio signals and their solutions are listed below.

- Q: No sound.
- A: Ensure that the audio cable is firmly connected to both the audio-in port on your LCD Display and the audio-out port on your sound card.

(Refer to the Connecting a Computer)

- A: Check the volume level.
- O: The sound level is too low.
- A: Check the volume level.
- A: If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.
- Q: The sound is too high or too low.
- A: Adjusts the **Treble** and **Bass** to the appropriate levels.

Problems related to the Remote Control



Problems related to the remote control and their solutions are listed.

- Q: The remote control buttons do not respond.
- A: Check the polarities (+/-) of the batteries.
- A: Check if the batteries are empty.

- A: Check if the power is on.
- A: Check if the power cord is securely connected.
- A: Check if a special fluorescent or neon lamp is on in the vicinity.

Problems related to MagicInfo



Making a Bootable USB Flash Disk.

- Q: Making a Bootable USB Flash Disk
- A: 1) You can turn a common 512-MB or bigger USB storage media into a bootable disk using a USB bootable disk creation tool. (For example, the HP USB Disk Storage Format Tool)
- A: 2) Copies the OS ghost image and executables to your USB disk.
- A: 3) Enter the BIOS menu of your set by pressing the F2 key in the BIOS logo screen. Then, enable the USB Boot First option by selecting that option and pressing the Enter key in the Boot menu.
- A: 4) Switch your set on while your USB disk is connected and boot up in DOS mode.
- A: 5) Run C:\ghost.exe and choose Local Partition From Image from the menu. Choose the ghost image to update your USB disk with and choose the target disk.
- A: 6) When the ghost image update finishes, the set will be rebooted automatically.

Q & A

- Q: How can I change the frequency?
- A: The frequency can be changed by reconfiguring the video card.



That video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

- Q: How can I Adjusts the resolution?
- A: Windows XP:

Set the resolution in the Control Panel Appearance and Themes Display Settings.

A: Windows ME/2000:

Set the resolution in the Control Panel Display Settings.

- * Contact the video card manufacturer for details.
- Q: How can I set the Power Saving function?
- A: Windows XP:

Set the resolution in the Control Panel Appearance and Themes Display Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

A: Windows ME/2000:

Set the resolution at the Control Panel Display Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

- Q: How can I clean the outer case/LCD Panel?
- A: Disconnect the power cord and then clean the LCD Display with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the LCD Display.

- Q: How can I play the video?
- A: The video supports the MPEG1 and WMV codecs only. Install the corresponding codec to play the video. Note that some of the codecs can be incompatible.



Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Specifications

General

General		
Model Name	SyncMaster 400TSn	
LCD Panel		
Size	40 " Diagonal (101 cm)	
Display area	885.17 mm (H) X 497.66 mm (V)	
Pixel Pitch	0.648 mm (H) X 0.648 mm (V)	
Synchronization		
Horizontal	30 ~ 81 kHz	
Vertical	56 ~ 85 Hz	

Display Color

16.7 M

Resolution

Optimum resolution	$1360\ x\ 768\ @\ 60\ Hz\ /\ 1366\ x\ 768\ @\ 60\ Hz\ depends on graphics card used$
Maximum resolution	1920 x 1080 @ 60 Hz (RB)

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB

0.7 Vp-p ± 5 %

Separate H/V sync, Composite, SOG

TTL level (V high \geq 2.0 V, V low \leq 0.8 V)

Maximum Pixel Clock

165 MHz (Analog, Digital)

Power Supply

AC 100 - 240 V~ (+/- 10 %), $50/60 \text{ Hz} \pm 3 \text{ Hz}$

Signal Cable

15pin-to-15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

Dimensions (W x H x D) / (Without Stand)

971 x 584.5 x 128 mm / 38.2 x 23.0 x 5.0 inch

Dimensions (W x H x D) / Weight (With Stand)

971 x 645 x 311 mm / 38.2 x 25.4 x 12.2 inch / 28.6 kg / 63.1 lbs

VESA Mounting Interface

600 mm x 400 mm

Environmental considerations

Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)	
	Humidity: 10 % ~ 80 %, non-condensing	
Storage	Temperature : $-4^{\circ}F \sim 113^{\circ}F (-20^{\circ}C \sim 45^{\circ}C)$	
	Humidity: 5 % ~ 95 %, non-condensing	

Audio Characteristics

Audio Input 1	RCA Jack Red(R) White(L), 0.5 Vrms (-9 dB)
Audio Input 2	RCA Jack Red(R) White(L), 0.5 Vrms (-9 dB)
PC Audio Input	3.5 øStereo Jack, 0.5 Vrms (-9 dB)
Frequency	RF: 80 Hz ~ 15 kHz (at -3 dB)
Response	A/V: 80 Hz ~ 20 kHz (at -3 dB)

Plug and Play Capability

This LCD Display can be installed on any Plug & Play compatible system. The interaction of the LCD Display and the computer systems will provide the best operating conditions and LCD Display settings. In most cases, the LCD Display installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 3,133,440.



Design and specifications are subject to change without prior notice.

MagicInfo - Client

It	em	Specification	Remarks	
LAN 1 C		Gbps		
U	USB Keyboard/Mouse, Mass Stor- USB removabl age Device Compatible supp		USB removable storage can be supported.	
Contents	Photo	Supported File Format : BMP/ JPEG	2274x1704 or less	
	Music	Supported File Format : MP3	Sound bandwidth : 50 Hz to 15 kHz	
	Movie	- MPEG1, WMV		
		- Max 1280 x 720 30 fps		

Item	Specification	Remarks	
File	MS Office(Word, Excel, Power Point), HTML, PDF	- Some files may not be supported depending on the format or the version.	
		- Install the proper viewing (freeware) program to see MS Office (Word, Excel, Power Point) or PDF documents.	
Internet Browser	MS Internet Explorer	Not Support Flash, Java Applet, Security Site	
Language	English		
OS	Windows XP Embedded		

MagicInfo Pro - Server Requirement

	CPU	RAM	Ethernet	OS	Application
Minimum	P1.8 Ghz	256 M	100 M / 1 G	Windows XP	WMP 9 or later
Recommended	P3.0 Ghz	512 M	100 M / 1 G	Windows XP	WMP 9 or later

PowerSaver

This LCD Display has a built-in power management system called PowerSaver. This system saves energy by switching your LCD Display to low-power mode when it has not been used for a certain amount of time. The LCD Display automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your LCD Display OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode	Power off (Power-switch)
Power Indicator	Green	Green, Blinking	Off
Power Consumption	228 watts	Less than 5 watts	0 watts

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-

VESA, 640 x 480	37.861	-		
VESA, 040 X 460		72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 848 x 480	31.020	60.000	33.750	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 768	47.776	59.870	79.500	-/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1360 x 768	47.712	60.015	85.500	+/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1920 x 1080	66.587	59.934	138.500	+/-



Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

General

General		
Model Name	SyncMaster 460TSn	
LCD Panel		
Size	46 " Diagonal (116 cm)	
Display area	1018.08 mm (H) X 572.67 mm (V)	
Pixel Pitch	0.53025 mm (H) x 0.53025 mm (V)	
Synchronization		
Horizontal	30 ~ 81 kHz	
Vertical	56 ~ 85 Hz	

Display Color

16.7 M

Resolution

Optimum resolution	1920 x 1080 @ 60 Hz (RB)
Maximum resolution	1920 x 1080 @ 60 Hz (RB)

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB

0.7 Vp-p ± 5 %

Separate H/V sync, Composite, SOG

TTL level (V high $\geq 2.0 \text{ V}$, V low $\leq 0.8 \text{ V}$)

Maximum Pixel Clock

165 MHz (Analog, Digital)

Power Supply

AC 100 - 240 V~ (+/- 10 %), 50/60 Hz \pm 3 Hz

Signal Cable

15pin-to-15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

Dimensions (W x H x D) / Weight (With Stand)

 $1104.2\ x\ 658.4\ x\ 134.3\ mm\ /\ 43.5\ x\ 25.9\ x\ 5.3\ inch$

Dimensions (W x H x D) / Weight (Without Stand)

 $1104.2\ x\ 720.0\ x\ 311.0\ mm\ /\ 43.5\ x\ 28.3\ x\ 12.2\ inch\ /\ 34.3\ kg\ /\ 75.6\ lbs$

VESA Mounting Interface

600 mm x 400 mm

Environmental considerations

Operating	Temperature : $50^{\circ}F \sim 104^{\circ}F (10^{\circ}C \sim 40^{\circ}C)$
	Humidity: 10 % ~ 80 %, non-condensing
Storage	Temperature : $-4^{\circ}F \sim 113^{\circ}F (-20^{\circ}C \sim 45^{\circ}C)$
	Humidity: 5 % ~ 95 %, non-condensing

Audio Characteristics

Audio Input 1	RCA Jack Red(R) White(L), 0.5 Vrms (-9 dB)
Audio Input 2	RCA Jack Red(R) White(L), 0.5 Vrms (-9 dB)
PC Audio Input	3.5 øStereo Jack, 0.5 Vrms (-9 dB)
Frequency	RF: 80 Hz ~ 15 kHz (at -3 dB)
Response	A/V: 80 Hz ~ 20 kHz (at -3 dB)

Plug and Play Capability

This LCD Display can be installed on any Plug & Play compatible system. The interaction of the LCD Display and the computer systems will provide the best operating conditions and LCD Display settings. In most cases, the LCD Display installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 6,220,800.



Design and specifications are subject to change without prior notice.

MagicInfo - Client

Item LAN		Specification	Remarks
		1 Gbps	
U	SB	Keyboard/Mouse, Mass Storage Device Compatible	USB removable storage can be supported.
Contents	Photo	Supported File Format : BMP/ JPEG	2274x1704 or less
-	Music	Supported File Format : MP3	Sound bandwidth : 50 Hz to 15 kHz
-	Movie	- MPEG1, WMV	
		- Max 1280 x 720 30 fps	
File		MS Office(Word, Excel, Power Point), HTML, PDF	- Some files may not be supported depending on the format or the version.
			- Install the proper viewing (freeware) program to see MS Office (Word, Excel, Power Point) or PDF documents.
Internet	Browser	MS Internet Explorer	Not Support Flash, Java Applet, Security Site
Lang	guage	English	
C	os	Windows XP Embedded	

MagicInfo Pro - Server Requirement

	CPU	RAM	Ethernet	os	Application
Minimum	P1.8 Ghz	256 M	100 M / 1 G	Windows XP	WMP 9 or later
Recommended	P3.0 Ghz	512 M	100 M / 1 G	Windows XP	WMP 9 or later

PowerSaver

This LCD Display has a built-in power management system called PowerSaver. This system saves energy by switching your LCD Display to low-power mode when it has not been used for a certain amount of time. The LCD Display automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your LCD Display OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode	Power off (Power-switch)
Power Indicator	Green	Green, Blinking	Off
Power Consumption	310 watts	Less than 5 watts	0 watts

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 848 x 480	31.020	60.000	33.750	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 768	47.776	59.870	79.500	-/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1360 x 768	47.712	60.015	85.500	+/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1920 x 1080	66.587	59.934	138.500	+/-



Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

Information

For Better Display

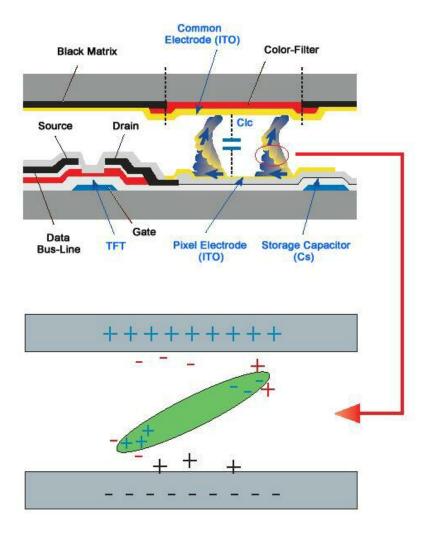
- Adjust the computer resolution and screen injection rate (refresh rate) on the computer as described below to enjoy the best picture quality. You can have an uneven picture quality on screen if the best picture quality is not provided for TFT-LCD.
- Resolution: 1360(1920) x 768(1080)
- Vertical frequency (refresh rate): 60 Hz
- TFT-LCD panels manufactured by using advanced semiconductor technology with a precision of 1ppm (one millionth) and above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without any problems.
- For example, the number of TFT-LCD sub pixels contained in this product are 3,133,440 (6,220,800).
- When cleaning the monitor and the panel outside, please apply the recommended small amount of cleaner by using a soft cloth to polish. Do not force the LCD area but rub softly. If excessive force is applied, you may stain it.
- If you are not satisfied with the picture quality, you can get better quality of picture by performing the "**Auto Adjustment** function" in display screen that is appeared as window termination button is pressed. If there's still noise after the automatic adjustment, use the **Fine/Coarse** adjustment function.
- When viewing a fixed screen for an extended period of time, a residual image or blurriness may appear. Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

PRODUCT INFORMATION (Image Retention Free)

What is Image Retention?

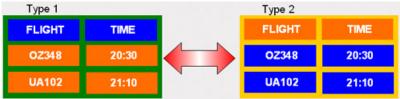
Image retention may not occur when a LCD panel is operated under normal conditions.

Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (over 12 hours), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed. To prevent this, the accumulated voltage difference must be decreased.



- Power Off, Screen Saver, or Power Save Mode
- Turn the power off for 4 hours after 20 hours in use
- Turn the power off for 2 hours after 12 hours in use
- Set the Monitor to power off with the PC Display Properties Power Scheme.
- Use a Screen saver if possible Screen saver in one color or a moving image is recommended.







Use Two different colors

Rotate the Color Information with 2 different colors every 30 minutes.

 Avoid using a combination of characters and background color with large difference in luminance.

Avoid using Grey colors, which can cause Image retention easily.

Avoid: Colors with big difference in luminance (Black & White, Grey)

- Change the characters color periodically
- Use Bright colors with little difference in luminance.
 - Cycle: Change the characters color and background color every 30 minutes



• Every 30 minutes, change the characters with movement.



- All area display Moving image together with Logo periodically.
 - Cycle: Display moving image together with Logo for 60 seconds after 4 hours in use.
- The best way to protect your monitor from Image retention is to turn Power off, or set your PC, or System to operate a Screen Saver program when you are not using it. Also Warranty service will be limited based on instruction guide.
- Apply the Screen Scroll function on Product
- · Apply the Screen Scroll function
 - Symptom: Horizontal Bar with Black Color move up and down.



- Select method

- Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Screen Scroll
- Time Interval: 1 ~ 10 hours (Recommend: 1)
- Time Period: 1 ~ 5 second (Recommend: 5)



(Please check CD's User Guide at "OSD Function", some model's will not available)

- Apply the Screen Pixel function on Product
- Apply the Screen Pixel function
 - Symptom: Dot with Black Color move up and down.



- Select method

- Instruction Guide: OSD Menu -> Set Up -> Safety Screen -> Pixel
- Time Interval: 1 ~ 10 hours (Recommend: 1)
- Time Period: $10 \sim 50$ second (Recommend: 50)
- Apply the Screen Bar function
 - Symptom: Horizontal / Vertical Bar with Black Color move up and down.



- Select method

- Instruction Guide: OSD Menu -> Set Up -> Safety Screen -> Bar
- Time Interval : $1 \sim 10$ hours (Recommend : 1)
- Time Period: $10 \sim 50$ second (Recommend: 50)



(Please check CD's User Guide at "OSD Function", some model's will not available.)

- Apply the Screen Erasing function on Product
- Apply the Screen Erasing function
 - Symptom: 2 Vertical blocks move with erasing the display



- Select method

• Instruction Guide : OSD Menu -> Set Up -> Safety Screen -> Eraser

• Time Interval : 1 ~ 10 hours (Recommend : 1)

• Time Period: $10 \sim 50$ second (Recommend: 50)



(Please check CD's User Guide at "OSD Function", some model's will not available)

Appendix

Contact SAMSUNG WORLDWIDE



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America				
U.S.A	1-800-SAMSUNG(726-7864)	http://www.samsung.com/us		
CANADA	1-800-SAMSUNG(726-7864)	http://www.samsung.com/ca		
MEXICO	01-800-SAMSUNG(726-7864)	http://www.samsung.com/mx		
	Takka Amarika			
ARGENTINE	Latin America	144//		
	0800-333-3733	http://www.samsung.com/ar		
BRAZIL	0800-124-421	http://www.samsung.com/br		
	4004-0000			
CHILE	800-SAMSUNG(726-7864)	http://www.samsung.com/cl		
COLOMBIA	01-8000112112	http://www.samsung.com/co		
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin		
ECUADOR	1-800-10-7267	http://www.samsung.com/latin		
EL SALVADOR	800-6225	http://www.samsung.com/latin		
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin		
HONDURAS	800-7919267	http://www.samsung.com/latin		
JAMAICA	1-800-234-7267	http://www.samsung.com/latin		
NICARAGUA	00-1800-5077267	http://www.samsung.com/latin		
PANAMA	800-7267	http://www.samsung.com/latin		
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin		
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin		
TRINIDAD & TO-BAGO	1-800-SAMSUNG(726-7864)	http://www.samsung.com/latin		
VENEZUELA	0-800-100-5303	http://www.samsung.com/latin		
	Europe			
AUSTRIA	0810 - SAMSUNG (7267864, € $0.07/\text{min}$)	E http://www.samsung.com/at		
BELGIUM	02 201 2418	http://www.samsung.com/be		
CZECH REPUBLIC	800 - SAMSUNG (800-726786)	http://www.samsung.com/cz		
	Distributor pro Českou republiku: Samsung Zrt., česká organizační složka, Oasi	s Florenc, Sokolovská394/17, 180 00, Praha 8		
DENMARK	8 - SAMSUNG (7267864)	http://www.samsung.com/dk		
EIRE	0818 717 100	http://www.samsung.com/ie		
FINLAND	30 - 6227 515	http://www.samsung.com/fi		
FRANCE	3260 'dites' SAMSUNG (€0,15/ Min)	http://www.samsung.com/fr		

	Europe	
	0825 08 65 65 (€0,15/Min)	
GERMANY	01805 - SAMSUNG (7267864, € 0,14/Min)	http://www.samsung.de
HUNGARY	06-80-SAMSUNG (726-7864)	http://www.samsung.com/hu
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com/it
LUXEMBURG	02 261 03 710	http://www.samsung.com/lu
NETHERLANDS	0900 - SAMSUNG (7267864, € 0,10/Min)	E http://www.samsung.com/nl
NORWAY	3 - SAMSUNG (7267864)	http://www.samsung.com/no
POLAND	0 - 801 - 1SAMSUNG (172678)	http://www.samsung.com/pl
	022 - 607 - 93 - 33	
PORTUGAL	808 20 - SAMSUNG (7267864)	http://www.samsung.com/pt
SLOVAKIA	0800 - SAMSUNG (726-7864)	http://www.samsung.com/sk
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com/es
SWEDEN	075 - SAMSUNG (726 78 64)	http://www.samsung.com/se
SWITZERLAND	0848 - SAMSUNG (7267864, CHF 0.08/min)	http://www.samsung.com/ch
U.K	0845 SAMSUNG (7267864)	http://www.samsung.com/uk
	CIS	
ESTONIA	800-7267	http://www.samsung.ee
LATVIA	8000-7267	http://www.samsung.com/lv
LITHUANIA	8-800-77777	http://www.samsung.lt
KAZAKHSTAN	8-10-800-500-55-500	http://www.samsung.com/kz_ru
KYRGYZSTAN	00-800-500-55-500	
RUSSIA	8-800-555-55-55	http://www.samsung.ru
TADJIKISTAN	8-10-800-500-55-500	
UKRAINE	8-800-502-0000	http://www.samsung.ua
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com/kz_ru
	Asia Pacific	
AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858	http://www.samsung.com/cn
	400-810-5858	
	010-6475 1880	
n.m.r.	HONG KONG:3698 - 4698	http://www.samsung.com/hk
INDIA	3030 8282	http://www.samsung.com/in
	1-800-3000-8282	
	1800 110011	
INDONESIA	0800-112-8888	http://www.samsung.com/id

JAPAN

0120-327-527

http://www.samsung.com/jp

Asia Pacific

				•
NEW ZEALAND	0800 SAMSUNG 786)	(0800 726	http://www.samsung.com/nz	Z
PHILIPPINES	1800-10-SAMSUN	IG(726-7864)	http://www.samsung.com/pl	h
SINGAPORE	1800-SAMSUNG(726-7864)	http://www.samsung.com/sg	3
THAILAND	1800-29-3232, 02-	689-3232	http://www.samsung.com/th	1
TAIWAN	0800-329-999		http://www.samsung.com/tv	V
VIETNAM	1 800 588 889		http://www.samsung.com/vi	n

Middle East & Africa

SOUTH AFRICA	0860-SAMSUNG(726-7864)	http://www.samsung.com/za
TURKEY	444 77 11	http://www.samsung.com/tr
U.A.E	800-SAMSUNG(726-7864)	http://www.samsung.com/ae

8000-4726

1800-88-9999

Terms

MALAYSIA

Dot Pitch The image on a monitor is composed of red, green and blue dots.

The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit:

http://www.samsung.com/my

mm

Vertical Frequency The screen must be redrawn several times per second in order to

create and display an image for the user. The frequency of this repetition per second is called the Vertical Frequency or Refresh

Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this

is regarded as 60 Hz.

Horizontal Frequency The time to scan one line connecting the right edge to the left edge

of the screen horizontally is called the Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Fre-

quency. Unit: kHz

Interlace and Non-Interlace

Methods

Showing the horizontal lines of the screen from the top to the bottom sequentially is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace

method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same

as that used in TVs.

Plug & Play This is a function that provides the best quality screen for the user

by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard

VESA DDC for the Plug & Play function.

Resolution The number of horizontal and vertical dots used to compose the

screen image is called the 'resolution'. This number shows the accuracy of the display. A high resolution is good for performing multiple tasks as more image information can be shown on the

screen.

Example: If the resolution is 1360(1920) x 768(1080), this means the screen is composed of 1360(1920) horizontal dots (horizontal resolution) and 768(1080) vertical lines (vertical resolution).

SRS TS XT

This feature outputs sonorous and vivid 3D sound as for 5.1 channel speaker sound but through a 2-channel speaker. It has a good effect when stereo signals are input.

Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Authority

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CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA $\,$

"Perchloate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."